



United States
Environmental Protection Agency
Region 10

DREDGED MATERIAL MANAGEMENT PLAN AND ENVIRONMENTAL IMPACT STATEMENT

McNary Reservoir and Lower Snake River Reservoirs

APPENDIX O Responses to Comments on Draft DMMP/EIS

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This final Dredged Material Management Plan/Environmental Impact Statement (DMMP/EIS) presents the Corps of				
Engineers' programmatic plan for maintenance of the authorized navigation channel and certain publicly owned facilities in				
the lower Snake River reservoirs between Lewiston, Idaho and the Columbia River, and McNary reservoir on the Columbia				
River for 20 years; for management of dredged material from these reservoirs; and for maintenance of flow conveyance				
capacity at the most upstream extent of the Lower Granite reservoir for the remaining economic life of the dam and reservoir				
project (to year 2074). The Corps, along with the U.S. Environmental Protection Agency, analyzed four alternatives for this				
Final DMMP/EIS: Alternative 1 - No Action (No Change) - Maintenance Dredging With In-Water Disposal; Alternative 2 -				
Maintenance Dredging With In-Water Disposal to Create Fish Habitat and a 3-Foot Levee Raise; Alternative 3 - Maintenance				
Dredging With Upland Disposal and a 3-Foot Levee Raise; and Alternative 4 - Maintenance Dredging With Beneficial Use of				
Dredged Material and a 3-Foot Levee Raise (Recommended Plan/Preferred Alternative).				
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DREDGED MATERIAL MANAGEMENT PLAN AND ENVIRONMENTAL IMPACT STATEMENT

McNARY RESERVOIR AND LOWER SNAKE RIVER RESERVOIRS

APPENDIX O

RESPONSE TO PUBLIC COMMENTS ON DRAFT DREDGED MATERIAL MANAGEMENT PLAN AND ENVIRONMENTAL IMPACT STATEMENT

U.S. Army Corps of Engineers Walla Walla District 201 N. 3rd Avenue Walla Walla, WA 99362

July 2002

1.0 Introduction

The Corps received comment documents (letters and e-mails) from 26 agencies, Tribes, organizations or individuals, in response to the draft DMMP/EIS.

The Corps carefully reviewed each of the comment documents to identify the specific comments and concerns raised by the public. The individual comments were noted within each document. The Corps then carefully considered each of the comments, and prepared responses to the comments. Where appropriate, the Corps revisited and/or revised the documentation, data, and/or analysis that were presented in the Draft DMMP/EIS.

Presented below are the comment documents and responses to comments received on the Draft DMMP/EIS. The individual comments are identified and numbered, and responses are presented following the letters. For the responses, comment text that was representative of the individual comments was extracted from the comment documents. In some instances, the extracted text represents only a part of the text of the comment provided in the document. Therefore, the complete documents are provided. The Corps considered the full context of each comment and has responded accordingly.

The comment documents and comment responses are organized as follows:

- Federal Agencies
 - U.S. Environmental Protection Agency, Region 10
- State Agencies
 - Idaho Department of Environmental Quality
 - Idaho Department of Fish and Game
 - O Idaho State Parks and Recreation
 - Washington Department of Ecology
 - Washington Department of Fish and Wildlife
 - O Washington State Department of Transportation
 - Washington State Parks and Recreation Commission
- Local Governments/Entities
 - City of Clarkston
 - O City of Lewiston
 - Lewiston Parks and Recreation Department
 - o Port of Clarkston
 - Port of Lewiston
- Tribes and Tribal Organizations
 - O Confederated Tribes of the Umatilla Indian Reservation
 - Confederated Tribes and Bands of the Yakama Indian Nation
 - O Columbia River Inter-Tribal Fisheries Commission
 - Nez Perce Tribal Executive Council
- Organizations
 - O American Waterways Operators
 - Columbia Towboat Association

Final DMMP/EIS July 2002 U.S. Army Corps of Engineers Walla Walla District

- O Lewiston and Clarkston Chamber of Commerce
- O Linblad Expeditions
- O Shaver Transportation
- Save Our Wild Salmon Coalition

Individuals

- o Mark Babino
- C Larry Gannon
- Patrick Whitehall

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 10 1200 Sixth Avenue Seattle, Washington 98101

Amot BCO-088

U.S. Army Corps of Engineers Sack Sands, Project Manager

201 North 3" Avenue Walla Walla, Washington 99362-1876

Dear Mr. Sands:

Environmental Impact Statement (EES) for the proposed Dredged Material Management Flan for the McMary Reservoir and the Lower Snake Kiver Reservoirs (CEQ No. 019434) in accordance with our authorities and responsibilities under the Nedoral Environmental Policy Act (NEPA) and Section 309 of the Chear Air Act. The draft HIS has been prepared by the U.S. Amy Corps of Engineers to evaluate long-range options for maintenance of the ravigation channel from Lower Gratie reservoir through the McMary reservoir. The after HIS identifies an allemative to construct misterance dredging in all reservoirs in the project area and disposing of the sediments in a beneficial manner as the Corps of Engineers' preferred alternative. The preferred alternative would also involve raising levers in the The Eqwironmental Protection Agency (BPA) has come vicinity of Lewiston, Idaho and Clarkston, Washington.

establishment of a Local Sediment Managament Group (LSMC) as an integral component of the development, implementation, and evaluation of the plan. We believe that using this group will teach in a plan that will likely meet the needs and/or requirements of a wide range of stakeholders with an interest in plan will result in a more systemetic and predictable approach to managing rediment in the project area than the present approach of dredging on a as-needed basis. Furtharmore, we support the controllment to pursue a plan that would use dredged material in a beneficial manner as it would reduce the carvicomental effects associated with the current approach being used. We also fully endorse the We would like to voice our support of the efforts of the Walls Walls District for developing a long-term (20 year) plan for managing sediment behind the Lower Stake River dams and the MoNury dam and the decire to use drugged materials in a beneficial manner. We believe that development of the how the river is managed and/or the resources that would be affected by management practices.

Management Plan (DMMP), we have some significant concerns with the currently proposed plan, as embodied in the preferred alternative, and the content of the EIS. The areas where we have major concerns are highlighted below and discussed in detail in the enclosure to this letter. While we are supportive of the efforts being taken in developing the Dredged Material

Lack of a Sediment Reduction Strategy - We are concerned that the plan does not include strategy for reducing the input of sediment into the project area. We recommend that the DMMPEIS be revised to include a sediment reduction strategy as an integral component.

Proposed Creation of Salmonid Habitat - Que assessment of the draft HIS leads us to conclude that the creation of more shallow-water habitat would likely result in adverse effocts to aquatic

conditions in the project area. We recommend that the ELS be revised to support the assertion that the proposed creation of habitat would beseft salmonida. See p. 2

semment Unaracterization - Phirinats, manganese, total dichlorodiphenytrichlorocchase (DDT), and cloria TEQ (note equivalency quotient) enceeded masimum sediment quality crist and ne concludered chemicals of concern. The EIS floods he revised to demonstrate that the dredged materials from the belief the Lower Grazie dam are naitable for in-water disposal and/or the creation of salmon habitat.

Lecal Sediment Management Group (LSMG) - The EIS should be revised to clearly inder whether or not this group has been formed. We recommend that the objectives (as well as the compositions) of the LSMG be expanded to address sources of sediment and their control.

These issues, along with others that we believe need to be addressed in the ELS, are discussed in greater detail in the enclosure to this letter. Should significant new information be developed in responding to comments of the draft EIS, a supplemental draft EIS would be the appropriate mechanism for informing the public and the decision maker of alternatives to, and potential consequences of, action to be taken by the Corps of Engineers on the proposed action.

Based on our review and evaluation, we have assigned a ming of EO-2 (Environmental Objections-Insufficient Information) to the druft EIS. This rating, and a summary of our commenta, to published in the Federal Register. A copy of the rating system used in conducting our review is enclosed for your reference We are interested in working closely with the Corps of Engineers in successfully resolving the sease we have identified. I ways you to contact Bill Ryan of my staff at (206) 553-8561 or John Malek in our Sediment Maningement Program (206-537-1226) at your earliest opportunity to discuss our constraints. oar Sediment Managument Program (206-553-1226) s and bow they might best be addressed for the project.

Thank you for the opportunity to provide comments on the draft Fils.

Geographic Implementation Unit

CONCURRENCE PACE

Dredged Makerial Management Plan - MeNary Reservoir and Lo Dead Environmental Images Suscenses Sepret.

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LPA Comments on the Draty Management Finn and Ravievamental Impact States Medical Management Finn and Lower States Rever Reserveirs

Sedimenta Reduction Strategy

The objective of developing the Dredged Material Management Flan (Dhilhar) is to establish a program to manage sediment in a manage the management strategy for developing the conveyance of the Lower Granbe reservoir, and defines the runangement strategy for deedged materials over the time horizon of the plan. As presently proposed, the Dhilh would address identified sedimentation problems exclusively by dredging materials that securmalate in the project sear. Flow conveyance behind the Lower Granbs Inm would be addressed exclusively by training levee heights near the confluence of the Stake and Clearwater River. Both approaches are focused on the "symptom" (sedimentation) and ignore the cause(s) of the problems that the plan is attempting to alleviate. A rightficant conjusion from the currently problems that the plan is attempting to alleviate. A rightficant conjusion from the currently approached plan (and abstructions of alleviate in the project strate. Eith heliaves that the plan should ultimately reflect a combination of all reasonable approaches available to reduce and control sections.

See 2

The development of the DAGMP provides a unique opportunity to address both the cause(s) of the problem as well as the "symptom" through the coupling of a acdiment control strategy and a management strategy that deciding and the disposal of druged materials. The U.S. Geological Survey has estimated that nearly 2.4 million tows of solithment are transported annually into the project stree by the Snake and Clearwater Rivers. Reducing the amount of acdiments entering the project stree would result in a reduction is the amount of druging (and associated costs and impacts) needed to nativatin navigation. Reducing sediment inputs upstream of the Lower Canade Dam would also sade it maintaining flow conveysace above the dim as sedimentation would be reduced. Through the reduction of sediment inputs over the lifetime of the DMDEP, we believe that the amount of materials needing to be drugged (as well as the frequency of drugging) would be reduced, as would the associated effects.

Because we believe that the reduction of sediment inputs upstream of the McNary Dam and the Lower Snake River Dams is fundamental to the nocess of the DMAP. We recommend that the DMAPRESS be revised to include a sediment reduction strategy as an integral property includes the recommend that the sediment reduction strategy as an integral confident reduction strategy include, at a minimum, the collowing components: See 3

diffication of the key stakeholders involved in developing the strategy

Specific extions synitable for reducing sediment input
Identification of entities responsible for implementing sediment reducing actions
Assessment of potential sediment reductions associated with identified reduction

Assessment of implications of reduced sedimentation on expected dredging volumes, frequency of dredging, and disposal approaches

Freposes Creation of Camponed Inc.
The preferred alternative (as w

The preferred alternative (as well as the other action alternatives) identifies the creation of salmon habitat as the primary beneficial use of dwaged material. In-water beneficial disposal of deedged material, in-water beneficial disposal of deedged material is the harder State River reservoirs is proposed to raise mid-depth benches in the reservoirs obtained to relate and enhance fish-rearing habitat. In this scenario, a mixture of fine material and sand would be pisced in mid-water areas to raise the river bottom to create an underwater shelf about 10 feet below the final grade. The second step would be to place and on top of the sandwill enhandment. The sand cap layer would be created with a minimum phickness of 10 feet. The final step would be to use a beam drag to flatten and level the tops of the mounds to form a flat, gently aloping shallow area.

EPA has a number of concerns with the proposed approach and the level of analyses presented to 1) support the impact characterizations presented in the BIS or 2) substantiate the claim at the tender of the shallow-water bettles would benefit asinons. A presently written, we do not believe that the BIS provides sufficient information to demonstrate that the proposed "creation of salmon habdar" ultimately represents a beneficial such by providing habitat and aquatic conditions that would ultimately represents a beneficial such by providing habitat of considerations related to the potential effects of the proposed DMCME that do not appear to have been factored ultio the sanlyses presented in the draft BIS. The BIS spould by revised to insore fully analyze and disclose the potential effects of the proposed DMMC, as required by the implementing regulations for NEPA (see 40 CFR 1500.1 and 1502.16).

Specifically, our assessment of the draft EIS leads us to conclude that the cration of more shallow-water habitat would likely result in adverse effects to aquatic conditions in the project area. The implementation of the proposed plan to "create fith habitat" would likely increase solar healing of the reservoirs, primary producing, and treating in meating of the reservoirs, primary producing, and treating in meating of the reservoir primary producing, and treating in meating of the reservoir of concentration, the proposition of the proposition of the proposition of the effects are discussed before.

Salmonid Habitat

Cold-water resident and attadromous species that were once common in the Columbia and Stake Rivers have declined since the construction of the dams and have been replaced by cool- and warm-water species. Species composition has changed due to the blockage of spawning migrations and modification of habitats.

Salmonid species differ in the type of habitat that they prefer. Most chitook spawn in large rivers such as the Columbia and the Snake. They tend to spawn in the mainstem of sate-ma, where water flow is high. Because of their size, they are able to spawn in larger grevel than most other stalmon. During the windst, jivenile epring chinook prefer riparian ofges where vegetation has grown into the stream, providing downs and shalter. Streambanks must be covered with vegetation to provide this type of habitat, and broken or degraded streambanks do not provide suitable habitat for jivvanile othinook. Jivvenile

coto prefer eddies or backwaters near an undercui bank, root wad or log. In the winter they are fluud in deep pools or side channel areas that offer rocks, logs and debris for cover. Invenile steelbead area in relatively shallow, cobile-bottomed areas at the tail of a pool or shallow riffle in the first summer after hakching. In winter, they hide under large boulders in shallow riffles. Older steelbead juveniles prefer the heads of pools and riffles with large boulders and woody cover in the summer. During the winter, older steelbead juveniles are found in pools, near streamside cover and under debris, logs or boulders.

The proposed to bury the sediments under 10 fast of sand and dragging a beam to flatton and sevel the tops of the mounds to form a flat, gently stoping thallow area does not appear to be an approach that would reash in the development of desirable babitut for almonatid. The smooth sand surface would provide no topographical relief. There would be to be habitut for tabelisting, feeding or prime lies. Sediments clog spaces between gravels and provent water from percohaling truvial, causing both fish and macroinvertebrate mortality.

The Riperian Habitat Subcommittee of the Oregon and Weithington Interagency Committee stated that no once than 15 percent of stream substrate should be covered by inorganic sediment. The report also states that if pools are filled with redimenta, rearing and sheltering abuliant for juvesile salmon is reduced or eliminated. The ELIS should evaluate offects of the DMoRP against these criteria.

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Bull troat have also been reported in the lower Snake River since 1991. Bull trout, also lighted as threatened under the ESA, are found primarily in colder streams. Water temperature above 59° F is believed to limit buil trout distribution. Buil trout require a spawning substrate of loose, clean gravel relatively free of fine sediments."

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Selm

Creating more shallow-water habitat would increase warmer shallow water its all of the lower Statice River reservoirs to the definent of cold water salmontd and to the benefit of lower Statice River reservoirs to the definent of cold water salmontd and to the benefit of higher warm water greaters. Other current issident ichityofahma of the reservoirs, about half are native species and half are introduced. Warm water species are generally more abundant in shallow, stower-webodity backwater awas, with native tiverine species counting in abundantly in areas with flowing water. Base (Micropterus spp.), Crapple (Comostis app.), Blueglii (Laponis spp.), yellow perch (Perca flavescent) and carp (Cyprisus carpio) prefer low water webcity, warmer water, finer substitute, and submented.

Of these, the most important predators of juvenile salmonids are bass, northern pike mimors, churnel catilat, craples, and yellow perch. Currently, water temporatures are below optimum throughout the growing season fix all predatory. "realdest game fish," The implementation of the proposed pian would likely result in adverse effects to salmonids by creating better conditions for their predators.

See 3

Macroimmentahomes

Macroinvertedenses are classified into floeding guilds. These feeding guilds are substrate proceeds. Sand in the pocarest admirate masterial for macroinvertedense production, giving rise to a classification known as "burnowers." Burnowers are a goor flood source for juvenile safinondids, since they are not flound on the substrate or in the biological drift. These insects burnow into the substrate and create. "If shaped trained in the sand where they directles water with their gills. This current that they create, serves as a conveyor of flood izems for the issuect. As a result of this life style - of living is, nather than on, the substrate - their availability as a food source for salmonids only occurs during energence, which occurs only once every one to these year.

As the draft EIS acknowledges, benthic masteriorenebrates that are commonly consumed by salmoneds in the lower Snake River and McNinry are associated with hard substrates. At the present time, it is the ripray that provides suitable hard substrate for macrolinvertebrates and caryfish in the lower Snake River and McNinry reservoirs. Correting the formy wish sand would remove this veloable habites and its macrolinvertebrates.

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Temperature

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Decreasing depth increases solar heating and stream temperatures. The lower Snake River already experiences high temperatures that also account for the elevated temperature in the mainstem of the Columbia River (including Lake Walinia behind McNary Dan).

Water temperature in the study area varies by time of the year and location. The monthly average water temperature for the months of July, August and September at the USGS Sauge at Anatone in the Lewritton area, was 70.0, 71.1, and 66.27 respectively, while the maximum daily temperatures for the months of June, July, August were 70.0, 74.8, 75.7, and 74.77

The EPA and the States of Idaho, Oregon, and Washington have established surface water criteria or standards for the Snake and Columbia River Bacias. Each state has different thermal criteria. Idaho DEQ specifies the most restrictive criteria for salmonid spawning, with machinum water temperatures are at 55T with daily sweages no greater than 48.2Te. The present standard for Oregon allows no temperature increases in the Columbia River, outside of an assigned mixing zone, when the water temperature is at or above 68Te. When the river is 67.5Te or lest, the Oregon standard dictates that no more than a 0.5Te increase is allowed by all sources when the stream is 66Te or feat. In Washington State, increase is allowed by all sources when the stream is 66Te or feat. In Washington State, Howwert, for specific Class A waters, no increase over 64Te due to human activity is allowed. Howwert, for specific Class A water educations und as the Columbia and Snake River above the confluence with the Clearwater River, no increase 0.54Te caused by human activity

can occur from a single source, or no increases over 2.7 from all activities when the stream is over 68.7

strain is over 68°F.

See 10 High temperature conditions during suignation have committated to outhreaks of directed and mibroquenti death among statis prior to spawning. High temperatures also increase the rate of development and fally ocuse by to charge butter his spring increase in food months.

Dissolved Oxygen Concentration

Dissolved oxyges concentrations are littled to temperature and flow. Dissolved oxygen values throughout the Snake River ranged from 6.4 to 13.3 ppm. In the animaer mouths, where there is a reduced flow and increased temperature, fow dissolved oxygen concentrations are found in the lack water areas of the dam forcedsy and sloughs. Washington Department of Reclogy has listed the lower Snake River impaired by low dissolved oxygen under the provisions and pursuant to Section 303(4) of the Clean Water Act. Increased would facilities caused by increased todar heating of the alsolved benches would facilities diminish the already low numeration dissolved oxygen concentration, potentially resulting in Esh deformations and higher filts mortality.

Hď

The everage pill in the upper Stake River is slightly above 4 pill units, while the fower portion of the Stake River everage slightly below that value. The pill on the Columbia between the Stake River confluence and McNery dam is 8.2 pill units. The high values are stributed to the natural geological conditions and the artificial conditioning of the soil

Most of the sediment is also vary rich in nitrogenous compounds, with the dominant species of nitrogen in the sediment being entmond. The Shake River sediments average 60 to 80 ppm of ammonia. The effects of the higher pH exacerbate the ammonia problems that are encountered in most of the sediment management areas.

12 High external un-fonized antunonia concentrations reduce or reverse diffusive gradient and cause a build up of emenonia in gill tissues of fish. Un-tonized smenonia tocicity correlates positively with temperature and hard water.

Sediment Characterization

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EPA is concerned that sediment sampling in the Lower Granise reservoir (where the greatest amount of dradging would lake place) investe that approximately 95 percent of the sediments being deposited are time-grained materials. Since the Snake Kiver flows through an use doculerated by agricultural use, these rediments tend to be highly sericled with organic mirrogen compounds and other materials. The sediments have small smoutes of herbicides and pesticides, low levels of dioxin, and a few heavy meats, butterial, mangarese, trust dichloroschame (DDT), and dioxin TEQ (cotic equivalency quorient) succeeded minimum sediment quality criteria and are considered chemicals of concern. Resign upon the

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current information, EPA questions the feasibility of using this material for in-water disposal or the creation of salmon habitet enhancement. The EIS should be revised to demonstrate that the dredged materials from behind the Lower Grants dam are soliable for in-water disposal and/or the oreation of salmon habitet.

has already been formed or whether it is yet to be formed. Much of the discussion is the EIS auggests that the LSMG has not yet been formed, yet states that the group has provided input into the development of the DNAMP. The EIS should be revised to clearly indicate whether or not this group has been formed. Let EIS should be revised to clearly indicate whether or not this group has been formed. Let EIS should be revised to clearly indicate whether or not this the group has been formed. We the EIS should identify the members of the group has do recent a summary of the input they have provided to the development of the plan. If it has not been formed, we recommend that the Corps convene the LSMG and utilize their input in the further development of the plan. Local Sediment Management Group
The druft ElS is not clear as to whether the Local Sediment Management Group (LSMG)

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We see the satablishment and operation the LSMG as a critical component of a successful strategy for managing sediment in the project area and strongly support its formation. Based on discussion in the deat Blass, it appears that the present direction of the group is focused on dredging and sediment management issues bectivities. An equal, if not more important, consideration in meeting the project purpose and need to davelop a program that maintains the authorized navigation channel and flow conveyance of the Lower Granite reservoir relates to reducing the project purpose and need to davelop a program that maintains the authorized navigation channel and flow conveyance of the Lower Granite reservoir relates to reducing the smooth of sediment being introduced into the Clearwater and States Rivers.

[5] Consequently, we recommend that the objectives of the LSMG be expanded to include agencies/entilies that have jurisdiction and/or are capable of influencing activities and stratice that contribute significantly to sediment inputs into the States and Clearwater Rivers. This will allow for the Mentification and evaluation of opportunities for convoling solution inputs at their source and thereby reduce the amount of materials that would need to be dredged and disposed of.

The ELS should expand the discussion of the LSMG to include a description of the group's role in decision-making processes by the Corps (or others) ssociated with managing testiment in the project are. It is not clear what types of decisions would be made or by whom not is the role of the LSMG clearly defined with respect to those decisions. This should be explained in the EIS. 9

toy successful adjustive management strategy is the design, implementation, and interpretation of an effective, well designed monitoring plan. We recommend the monitoring plan for the DMMP be designed with the aging involvement of the ISMG With implementation of the IDMMP; The ISMG should also have a role in the implementation and interpretation of the results of monitoring conducted. This will ensure that appropriate adjustments to the plan can be made (if deemed necessary), based on a broad-based evaluation of the monitoring results. The presently proposed plan seems to rely heavily on an adaptive management approach to sediment issues in the Lower Snake river and behind the McNary Dam. <u>A critical element in</u>

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A critical element in any successful adaptive management strategy is the design, implementation, and interpretation of an effective, well designed monitoring plan. We are concerned that the monitoring plan was not presented for public review in the draft ELS as the auceas of the DMMP will rely heavily on the animar it which plan performance is monitored. We believe that providing the public with an opportunity to maint in developing and refaining the monitoring component of the ELS such is should include a batter plan. We transmement that the monitoring plan be included in the ELS and it should include a public involvement component to

Atternatives Eliasinated from Detailed Review

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detailed consideration and evaluation because they do not represent complete, stand-alone solutions to the neglecturion and evaluation because they do not represent complete, stand-alone solutions to the nedimentation problems in this project area. As the proposed management plan is intended to set forth a program to manage sediment in a manuser that maintains savigation, flow conveyues of the Lower Grazide reserved, and defines the management strategy for dredged materials over the time horizons of the plan, we believe that the plan should utkinsidy reflect a combination of all resecuable approaches available to relate and control sediment, as well as methods for dredging and sanaging dredged materials. Sociote 2 of the dreft ELS infectites that changing and use practices uptraem of Lower Grazide Dan would reduce sedimentation and, thus, reduce the need for dredging and disposal of dredged materials. The ELS size ondicates that the use of bandaway weirs represents an environmentally sensitive approach for reducing streamback choice and maintenance coats. Both of these alternatives have been climinated the materials. practical or feasible for the exito project (fendaway weits). EPA does not believe that the draft EIS presents sufficient information/analyses to support the climination of these approaches from detailed evaluation. Our concerns with eliminating these options are presented below. because they either do not represent a complete solution (the "land use" alternative) or are not

While we agree that changing upstream land uses is "not a complete solution to maintain navigation." we believe that evaluating this critical component is a necessary part of the development of a plan to successfully and effectively minimain the surfactived navigation channel and flow conveyance of the Cower Granie reservoir. Consequently, the evaluation of options for reducing sedimentation should be evaluated as an integral Change Upstroam Land Uses and Land Management Practices to Control Sediment

need to drudge) is critical to managing navigation and flow conveyance of the Lower Granits reservoir, two primary objectives of the management plan. Based on information presented in the druk RES, control of sediment from non-imigated cropland alone could potentially reduce the amount sediment transported in the Lower Granite reservoir by roughly 37 percent (approximately \$20,000 ton/year). Given the potential to agnificantly component of all alternatives in the EIS. As shown in Table 1-1, materials dredged from the Lower Granite reservoir account for roughly 76 percent of the total voluntes dredged in the project area between 1977 and 1999. This indicates that reducing sediment inputs into the Clearwaker and Snake Rivers upstream of the confluence (thereby reducing the

13

reduce sediment inputs into the Lower Cranks reservoir (and the associated need to dradge), we recommend that the E15 be revised to include an evaluation of potential changes to upstream land use practices as they relate to controlling sediment.

Use of Bendaway Weirs

before determining its familities. We believe an evaluation of potential locations for the use of bendawny wers (along with necessary analyses/modeling) should be conducted as part of the development of the proposed management plan as the use of the weirs could potentially reduce the need to dredge and dispose of dredged materials. The use of this technology, if found to be feasible, should be used in combination with dredging and the The draft BIS suggests that the use of bendaway weirs in specific locations could provide an eavinonmentally sensitive method of reducing streambank evotion and reduced sediment flow to reduce maintenance (dweiging) costs, yet this approach appears to have been rejected from farther consideration because additional analysis would be required control of sediment sources to improve the effectiveness of the proposed management

21

Beneficial Uses of Dradged Material

We fully support the development of a Dredged Material Management Plan (DMMp) that employs a trategy of disposing of dredged material in a beneficial manner. To achieve these goal, we recommend that the proposed DMMp and Hills be revised to more clearly describe the manner in which the presenting preferred attentive of Alternative of Neodel be implemented and demonstrate that the beneficial uses identified are indeed beneficial (particularly the creation of salmon habitat). Section 2 of the drug Hill describes at number of beneficial uses that would or process that would be used to determine whether potential beneficial uses would be implemented and lower relative priorities would be determined should there be "competing" beneficial uses. Section 2.8.5. I presents a very brief deteription of the presently-proposed process which we believe backs a critical component; a direculson of the role of the LSMG in developing, evaluating, and ultimately advising the Copts about selection and implementation of the beneficial user. The role of the LSMG should be described in the EIS as it relates to the critical could be pursued with the implementation of Attentative 4, but there is little discussion of the function of determinating and implementing beneficial uses.

23

Conducting Dredging and Disposal Operations during Flat Windows
Information costs that indicates salmonids are in the Lower Stake River reservand. As
a consequence, statements in the EIS that inneed, would be presided because work would be
conducted during windows when salmon would not be around do not appear to be appropried.
We recommend that the EIS be revised to discuss this issue and include additional
discussion/analysis to support the consciusors that impacts to salmon would be neediable.

Baseline Water Quality Information

77

We are concerned with the lack of information, or reliance on very old data (circa 1973), used to characterize current (baseline) water quality conditions in the draft E19. In order to develop meaningful evaluations of potential effects to water quality/inquatic resources from the

proposed activities (in this case, sediment management, dredging and disposal), it is critically important to establish current bessline conditions. We are particularly concerned that the approach proposed to be taken to address these dan deficiencies has been deferred until dredging activities have been scheduled or are already underway. 24 cont.

develop a measingful strategy for managing drugged material, we recommend that current baseline information related to nutrients, toxic substances and seliabricocodastivity in Lake Whitile and sellabricocodastivity in Lake Statement and sellabricocodastivity in Lake statement and sellabricocodastivity in Lake statement and the Lower Granite dam be stated and presented in the Eds. Additionally, continued relates on the 1973 Wester Quality Report (or other dated reshences) should be accomposated with a discussion of how the date contained in the report are relevant and applicable to the current situation. This is critically important when the date reported are menty 30 years old and were gathered before all the dams secures an understanding of current conditions and predicted effects are required to in the project area were in place and operating.

25

Government-to-Government Consultation with Tribes

The draft EIS provides fittle evidence that required government-to-government consultations with affected Tribus have been conducted. Further development of the plan and EIS should be conducted in consultation with the governing bodies of affected Tribus, consistent with BO 13175 (Consultation and Coordination with Indian Tribus Government) which states that the U.S. government will owning indian tribus on a government—to-government basis to address leaves concerning indian tribal self-government, frunk recources, and Indian tribal treaty and other rights. The results of consultation and coordination with affected Tribal governments should be documented and reported in the EIS.

56

Environmental Justice Analysis

While Section 5.25 of the draft ELS presents a very general discussion of Encourive Order
(ED) 12838 (Federal Actions to Address Enricomental Justice In Minority Populations and
Low-Income Papulations) and the proposed plat, the ELS presents to evidence that the necessary
analyses have been conducted. Identification of potential impacts and mitigation measures,
developed in consultation with affected minority and/or low income populations, must be
included in the ELS to meet the direction of EO 12998 and the accompanying memorarabul frenched in the ELS should include the following three major components:

identification (including many) of all low income and people of color communities in the

This should include a description of the methodology and criteria utilized for identifying the low income and people of color communities, the sources of data utilized for these statiyess, and references utilized for establishing the criteria. Note: If 1990 U.S. Census data are utilized, the EIS needs to discuss any short falls that may result from utilizing this data set, and/or what steps were taken to assure the data is still appropriate for 2002 ares that would be impacted by the proposed project

22

26 cont.

Comerchenists accounting of all the innects on low income and people of color. The identification of impacts needs to include (and not limited to) cumulative and indirect impacts, exposure pathways unique to the impacted communities, historic organeres, and impacts to ordanni, historic and protected resource. In addition, the EIS needs to determine if the impacts on the low income and people of color communities would be disproportionmetly higher those impacts on non-low income and non-people of color communities. For each a determination, the EIS must identify a reference community and provide a justification for unificing this reference community. This pastification for unificing this reference community and provide a justification for unificing this reference community.

identification of disproportionately high and adverse effects to the low income and

ple of color communities

The EIS must identify whether any disproportionately ligh and adverse to low income and people of color communities would result from the project. If so, the EIS should demonstrate that communities bearing disproportionately high and daverse effects have had meaningful input into the decisions being made about the project. The EIS needs to provide a discussion on what was done to receive input from the affects have provide a discussion on what was done to receive input from the affects ocurumnited (notice, mailings, fact sheets, briefings, presentation, exhibits, tours, nows releases, translations, newsletters, reports, community inserviews, aurway, cainways, cainwassing, telephone hollines, question and answer seations, stakeholder meetings, and on some information, what the input was, and know that input was utilized to shape the final outcome of the preject. This discussion should include how input from affected communities was utilized to the stays were taken to assure that concerns of individuals are being addressed, not just those of the governmental entities.

Death Reformental Impact Sections
Definitions and Potton-Up Action

ka Karkenganani Pratentka Agang (UDA) serker kas an sémalkad sep patanta ngerkananantal kupata segaling meka, na pripanal. Tan serker nany kare disekaral sepanankan ke ngalansian si mahgasian masawan tan masid ke semanjuk

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J.S. Environmental Protection Agency

Comment 1

and/or requirements of a wide range of stakeholders with an interest in how the river is managed McNary dam and the desire touse dredged materials in a beneficial manner. We believe that the Group (LSMG) as an integral component of the development, implementation, and evaluation of Furthermore, we support the commitment to pursue a plan that would use dredged material it a approach being used. We also fully endorse the establishment of a Local Sediment Management development of the plan will result in a more systematic and predictable approach to managing We would like to voice our support of the efforts of the Walla Walla District for developing a long-term (20 year) plan for managing sediment behind the Lower Snake River dams and the the plan. We believe that using this group will result in a plan that will likely meet the needs beneficial manner as it would reduce the environmental effects associated with the current sediment in the project area than the present approach of dredging on a as-needed basis. and/or the resources that would be affected by managenent practices.

our comment is noted.

Organization

U.S. Environmental Protection Agency

Comment 2

the currently proposed plan (and alternatives to it) is a strategy for reducing sediment inputs that strategy for reducing he input of sediment into the project area. . . . A significant omission from ultimately affect navigation and flow conveyance in the project area. EPA believes that the plan control sediment, as well as methods for dredging and managing dredged materials. . . . [H]e recommend that the DMMP/EIS be revised to include a sediment reduction strategy as an should ultimately reflect a combination of all reasonable approaches available to reduce and Lack of a Sediment Reduction Strategy - We are concerned that the plan does not include a integral component.

dentifying possible changes in upstream land management to reduce erosion and sedimentation. Non-dredging or reduced dredging alternatives, including sediment reduction strategies, were considered in development of the DMMP/EIS (see Sections 2.2.1 – 2.2.3). Section I.8 has been expanded to discuss the role of the Local Sediment Management Group in evaluating and

Organization

U.S. Environmental Protection Agency

Comment 3

that the creation of more shallow-water habitat would likely result in adverse effects to aquatic Proposed Creation of Salmonid Habitat - Our assessment of the drast EIS leads us to conclude conditions in the project area. We recommend that the EIS be revised to support the assertion that the proposed creation of habitat would benefit salmonids.

The primary emphasis of the habitat creation is for fall chinook, which spawn and rear in the mainstem Snake River prior to outmigrating, typically within the same calendar year of emergence.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

tabitat for salmonids, numerous scientists from federal, state, university and tribal agencies set up study design, a lead researcher who was a recognized expert in the field, and a study design from the regions leading experts, we believe that the science supports our claims. (See Sections 3 and agencies included the U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, National Marine Fisheries Service, ESSA, Battelle-PNNL, Washington Department of Fisheries, Oregon Department of Fish and Wildlife, University of Idaho, University of Washington, Oregon State was David Bennett, Ph.D., a tenured professor at the University of Idaho. With a multiple year University, and the Yakama Indian Nation. The researcher involved with many of the studies Although the proposal to create shallow water salmonid habitat may not "appear" to develop the study design in 1987 to ensure it evaluated the effectiveness of habitat creation. 4 of the DMMP for details.)

chinook were consistently sampled at much higher rates over natural habitat (including sand) than around riprap in the mainstern Columbia. In addition, researchers have consistently captured subyearling chinook salmon over sandy habitat in the unimpounded section of the Lower Snake shorelines, the areas most frequently used by fall chinook salmon. The building of sandy shallow riprap, although providing substrate for some species of invertebrates for a few weeks out of the year, is a non-preferred habitat for salmonid species. Garland et al 2001 indicated juvenile fall primarily a single habitat type in the Lower Granite Reservoir. Typically, biologists believe that water benches, which were formerly quite prevalent in the lower Snake River as determined by examining aerial photos taken pre-impoundment, provides habitat diversity to what currently is River upstream from Lower Granite Reservoir and in Lower Granite Reservoir (Bennett et al The current status of the Snake RiverReservoirs provides little variation in habitat along the

spawning material. However, all of these areas, with the exception of Ice Harbor, are in the areas of higher velocities, such as in front of the powerhouses of the dams, and dredging is proposed in populations of spring or summer chinook have ever been found spawning in the lower Snake and Although large numbers of fall chinook typically spawn in the mainstem of these rivers, numbers not downstream in the lower river. Areas that do have fall chinook spawning habitat include the chinook salmon spawn in large rivers such as the Columbia and the Snake". However, no known tailraces of the dams where velocities are sufficient to keep gravels and cobbles clean for use as Nearly Columbia rivers, and there is no historic evidence that indicates that this has ever been the case. spawning habitat for fall chinook occurred upstream of the Hells Canyon complex of dams and habitat for spawning salmon due to velocity and substrate restrictions. In addition, most of the all of the areas proposed for dredging in the lower Snake River or McNary Reservoir have no On page 2 of the enclosure to your letter, "Salmonid Habitat" paragraph 2, you state "most the slower water on the far side of the channel where no fish have ever been documented fluctuate from year to year as to which run is largest, especially within the Snake River. spawning despite numerous years of looking (Dauble et al 1998).

true in smaller, shallower tributaries. However, because of the historic hydrograph of the Snake and Columbia rivers, the lowest water surface elevations occur in the winter and, therefore, riparian areas were/are typically farther away from the water's edge than can be used by juvenile in the same paragraph, you also state, "during the winter, juvenile spring chinook prefer riparian edges where vegetation has grown into the stream, providing cover and shelter." This may be salmon during that time of year.

Organization

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

J.S. Environmental Protection Agency

minimum sediment quality criteria and are considered chemicals of concern. The EIS should be revised to demonstrate that the dredged materials from behind the Lower Granite dam are Sediment Characterization - Nutrients, manganese, total DDT, and doxin TEQ exceeded suitable for in-water disposal and/or the creation of salmon habitat.

Section 3.9.2 has been revised to more accurately reflect sediment quality as potentially affected by dredging, as well as the suitability of dredged materials for in-water disposal, creation of salmon habitat, and/or beneficial uses. Some of the sediment quality information presented in the Draft DMMP/EIS referenced sediment navigation maintenance examined in the DMMP. Further, the sediment analysis for the DMMP, throughout the lower Snake River system that may have been affected by dam breaching, which Feasibility Study), which evaluated sediments with respect to a very different proposed action navigation channel. Historical sediment data from the navigation channel indicate no sediment from that considered in the DMMP. The Feasibility Study examined sediments from locations sediment data from areas that may be dredged in the next 20 years to maintain the authorized as documented in Sections 3.9.2.4 and 4.9 of the Final DMMP/EIS, is focused on available analysis for the Lower Snake River Juvenile Salmon Migration Feasibility Study and EIS would be much more far-reaching in terms of sediment transport and disturbance than the contaminant issues would be likely.

dredged material evaluation framework. Until a framework specifically for the lower Snake and potential effects on salmonids and other potentially affected species and, if dredging is to be done, it will help determine the dredging methodology, amount and type of monitoring needed during dredging, and where the excavated materials will be relocated to, either in-water or on Prior to any dredging, the proposed areas will be sampled and analyzed per the guidance of a Material Evaluation Framework will be used. The results of these analyses will evaluate the mid-Columbia rivers is completed, the Lower Columbia River Management Area Dredged

exist within the sediments to be dredged. The collection and analysis of sediment samples will be from the reintroduction of toxic materials if an unknown hot spot is encountered during dredging. further, analysis prior to dredging will include chemical analysis to identify contaminants if they done in accordance with an approved Sampling and Analysis Plan that is designed to provide an righ probability that significant amounts of toxic materials will be identified prior to the start of any toxic materials into the water column, monitoring will be used to limit the extent of impacts plumes in the river. While the Corps' intent is to test the sediment and avoid reintroduction of amounts of sediment movement may occur during dredging operations and whether the work will be stopped and/or modified to provide additional controls or limit the extent of sediment DMMP ES as Appendix M. Monitoring during dredging will assess whether unacceptable dredging operations. A monitoring plan has been developed, and is included with the Final

Organization

U.S. Environmental Protection Agency Comment 5

LSMG - The EIS should be revised to clearly indicate whether or not this group has been formed. We recommend that the objectives (as well as the compositions) of the LSMG be expanded to

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

iddress sources of sediment and their control.

The Local Sediment Management Group (LSMG) has been formed (see Section 1.8). Portions of meetings. The section has also been expanded to discuss the role of the LSMG in addressing the section have been modified to better reflect that the group does exist and has held several changes in upstream land management to reduce erosion and sedimentation.

U.S. Environmental Protection Agency

Comment 6

macroinvertebrak mortality. The Riparian Habitat Subcommittee of the Oregon and Washington Interagency committee stated that no more than 15 percent of stream substrate should be covered clog spaces between gravels and prevent water from percolating through, causing both fish and by inorganic sediment. The report also states that if pools are filled with sediment, rearing and The approach to create salmonid habitat using dredged materials would probably not result in topographic relief. There would be no habitat for sheltering, feeding or prime lies. Sediments sheltering habitat for juvenile salmon is reduced or eliminated. The EIS should evaluate the development of desirable habitat for salmonids. The smooth surface would provide no effects of the DMMP against these criteria.

are proposing to dispose of material. We are planning to dispose in areas where there is currently only silt, leaving a more productive area of sand for fish habitat, a significant improvement to The Bennett et al. 1995a report on created habitat indicated that fall chinook prefer areas of open, what is currently there. Currently, the Lower Granite Reservoir is composed of primarily silt in beneficial use outside of directly creating in water habitat. The Corps of Engineers believes that Although sediments can prevent water percolation through gravels, there is no gravel where we salmonid habitat that is currently in the lower Snake River including Lower Granite Reservoir. underwater benches would benefit salmonid species, primarily fall chinook. In addition, the Woody Riparian program within the Corps has potential needs for sedimentary material for creating/enhancing riparian areas along the Lower Snake River. This could be considered a creating the shallow water sand bars along the shorelines is an improvement to the juvenile the lower reaches near Lower Granite Dam. Creating habitat diversity by creating new andy substrate that did not have hiding places for predators.

U.S. Environmental Protection Agency

Comment 7

Bull trout have also been reported in the lower Snake River since 1991. Bull trout, also listed as threatened under the ESA, are found primarily in colder streams. Water temperature above 59° F is believed to limit bull trout distribution. Bull trout require a spawning substrate of loose, clean gravel relatively free from fine sediments.

59°F even before the hydrosystem was in place. Evidence suggests that adfluvial (migratory) bull Although bull trout have been documented in the lower Snake River, there is no evidence of them using the river during the summer months when the water temperature is warmer. In addition, bull trout spawn in August and September, a period when temperatures would have exceeded rout from the Tucannon River also utilize the mainstern Snake River on a seasonal basis

Final DMMP/EIS

U.S. Army Corps of Engineers

Walla Walla District

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displacing bull frout; but due to the distance to the Tucamon River from this site, this possibility would be using portions of the river that would not be impacted by the dredging operation. The current proposed disposal of dredged material at Chief Timothy HMU has the remote chance of exists. Thus, even though bull trout may be present in the river during times of dredging, they (November - May). These fish most likely forage in shallow areas where the majority of prey

Environmental Protection Agency

Comment 8

water predators. The implementation of the proposed plan would likely result in adverse effects to Creating more shallow-water habitat would increase warmer shallower water in all of the lower Snake River reservoirs to the detriment of cold water salmonid and to the benefit of their warm salmonids by creating better conditions for their preditors

Response

riverside. The Corps is not currently proposing building islands at the proposed disposal sites. In Centennial Island Site than at the modified reference sites. However, predators were encountered The research by Bennett et al (1995a) demonstrated that predators were not concentrated around these habitat areas created at Centennial Island and were actually found in fewer numbers at the appear to use the area is they prefer the open sand habitat because there is no hiding places for addition, predators are thought to use areas of higher relief, which is why the habitat areas are proposed for smoothing. Bennett et al 1995a reported one of the reasons juvenile fall chinook around the areas where larger substrate that was put in place to stabilize the island on the

J.S. Environmental Protection Agency

Comment 9

salmonids in the lower Snake River and McNary are associated with hard substrates. Covering As the draft ES acknowledges, benthic macroinvertebrates that are comonly consumed by the riprap with sand would remove this valuable habitat and its macroinvertebrates

Respons

produced more so on the rocky substrates, Tiffan et. al. 2001 reported that juvenile salmon do not Although Bennett (1995a) reported that much of the ephemeropterans and other invertebrates are use these habitats. Other agencies have actually suggested covering riprap to establish riparian

reservoirs and fall chinook were not typically found to consume oligochaetes. He determined fall riprap may eventually be covered by dredged material in favor of creating riparian habitat, not all of the riprap would be covered and most of the overall hard substrate in the lower Snake River lower velocities, the residence time of zooplankton over the proposed shallow water habitat should be increased, increasing their vulnerability to fall chimok. In addition, although some determined most zooplankton was collected over shallow water habitats and that Cladocerans were in the highest densities at these locations. Because these shallow water areas may have Curet 1993 performed a diet analysis of fall chinook in the Lower Granite and Little Goose chinook were eating Cladocerans (daphnia) and dipterans in high numbers. Bennett 1995a would continue to have the ability to produce insects.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers

Appendix O
Response to Comments

J.S. Environmental Protection Agency

Comment 10

among adults prior to spawning. High temperatures dso increase the rate of development and conditions during migration have contributed to outbreaks of disease and subsequent death Decreasing depth increases solar heating and stream temperatures. . . High temperature may cause fry to emerge before the spring increase in food supplies.

water temperature is not a problem. As most fish outnigrate within the first year as subyearlings, tailrace areas. However, fall chinook typically emerge as fry in March and April, a period where low flow year, the water temperature did not reach 20°C until July 2, when over 93% of the total the warmer shoreline temperatures actually serve to trigger outmigration. In addition, in 2001, a unsubstantiated and incorrect. The only areas within the Lower Snake River Project where fry emerge from the gravel may be in the Hells Canyon Reach and downstream of the dams in the smoit outmigration had already passed Lower Granite Dam, as evidenced by the Smolt Index from the Fish Passage Center, Portland Oregon, (99% of Yearling Chinook, 92% of Sockeye, 98% of Steelhead, 72% of Coho, and 45% of fall chinook). Twenty degrees Celsius is a emperature at which most scientists stop handling fish to avoid additional stress induced The thought that high temperatures in the lower Snake River harm "fry" salmonids is nortality.

than 0.8% of the total volume of the reservoir (considering an average 15 foot depth x 246 acres/ confluence area, and considering the amount of water exchange occurring in the reservoir, would Although increased temperatures may cause heath problems in fish, the maximum total surface area of the habitats proposed over the 20-year life of the project amounts to less than 3% of the total surface acreage of Lower Granite Reservoir (246 acres/8900 acres) and would effect less 483,800 acre feet). This small amount of influence, combined with the increased depth in the not impact the temperatures very much. The benefits to fall chinook, however, of having these small areas where the temperatures may be rates, and increased overall survivability through the hydrosystem on their downstream migration. slightly higher than the rest of the reservoir, includes greater food production, increased growth

raused by the dams, but is caused by upstream influences which are currently not being addressed Data quoted from the Anatone United States Geological Survey (USGS) Gage indicates that high River dams. Since Anatone USGS Gage exists over 20 miles from the influence of Lower Granits water temperatures are a problem prior to approaching the area impounded by the Lower Snake Reservoir, the correlation with high temperature and the effect of the Lower Snake Project is unclear. It appears that the overriding factor of temperature in the Lower Snake project is not see the Feasibility Study EIS, Appendix C, Section 3, page 17).

Organization

U.S. Environmental Protection Agency

Comment 11

Increased water temperature caused by increasedsolar heating of the shallow water benches would further diminish the already low summertime dissolved oxygen concentration, potentially

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers

resulting in fish deformities and higher fish mortality.

See response to comment 10 above.

U.S. Environmental Protection Agency

Comment 12

High externalun-ionized ammonia concentrations reduce or reverse diffusive gradient and cause a build up of ammonia in gill tissues of fish Un-ionized ammonia toxicity correlates positively with temperature and hard water.

management would occur in December - March, when water temperatures are low. Both of these Most of the sediments that would be dredged are anticipated to be sand and, therefore, would be Further, most dredging and dredged material factors reduce the risk of ammonia being released into the water column during proposed fredging and dredged material management activities. unlikely to be "rich in nitrogenous compounds."

comment, would potentially occur as a result of proposed dredging. Section 3.9 of the DMMP/EIS provides a summary description of how the framework will be utilized by the Corps, Corps is in the process of developing a specific framework for the project area. However, until a evaluating dredged materials and their potential effects on water quality and aquatic biota. The Lower Snake/Mid-Columbia framework is finalized, the Corps will use applicable elements of The Dredged Material Evaluation Framework provides specific guidance and procedures for framework to determine if water quality-related impacts to fish, such as those cited in the and an outline for the proposed framework is included in Appendix J of the DMMP/EIS. the Lower Columbia Dredged Material Evaluation Framework. The Corps will use the

Organization

U.S. Environmental Protection Agency

Comment 13

for in-water disposal or the creation of salmon habitat enhancement. The EIS should be revised being deposited are fine-grained materials. EPA questions the feasibility of using this material to demonstrate that the dredged materials from behind the Lower Granite dam are suitable for EPA is concerned that sediment sampling in the Lower Granite reservoir (where the greatest amount of dredging would take place) reveals that approximately 95 percent of the sediments in-water disposal and/or the creation of salmon habitat.

navigation channel, port facilities, recreation facilities, and irrigation intakes. The majority of the to remove about 250,500 cubic yards from the Federal ravigation channel at the confluence of the removed from ports, shorelines, and boat basins. (For example, in 2002-2003 the Corps proposes Section 2.2.5 does state that approximately 95 percent of the sediments being deposited in Lower Granite reservoir are fine-grained. However, Section 2.2.5 also states that the material dredged approaches, but only about 44,700 cubic yards from ports and recreation facilities combined.) dredged material is removed from the main navigation channel and comparatively little is Reservoir. The Corps is only proposing to dredge material that has deposited within the Snake and Clearwater rivers and 24,000 cubic yards of cobbles from the navigation lock The Corps is not proposing to dredge all of the sediments that deposit in Lower Granite

Final DMMP/EIS

U.S. Army Corps of Engineers Walla Walla District

Response to Comments

that composition of materials dredged from port areas, close to streambanks, and in boat basins is percent finer silt material. The section goes on to state that the silt entering the reservoir does not contribute significantly to shoaling of navigation channels and that the silt is either deposited in previous dredging operations have contained between 85 and 90 percent sand and that these are indicative of what might be dredged from the main navigation channel. The section also states expected to contain up to 50 percent silt and fines. Therefore, the majority of the material that navigation channels. In addition, Section 3.9.2.2 states that most sediment samples taken for from the navigation channel in Lower Granite is 85 percent sand, gravel, and cobble and 15 other portions of the reservoir or relocated by prop wash, thereby eliminating it from the would be dredged would be sand and not fine-grained material.

This decision tree directs sediments that are greater than 30 percent fines to upland disposal areas and 30 percent silt. However, sediment data from the areas that would potentially be dredged in See response to Comment 4 above. Figure ES-4 of the Draft DMMP/EIS illustrates the process that considers the grain size of dredged materials as they relate to material management options if there is not enough sand available from other dredging sites to form a mix of 70 percent sand Lower Granite Reservoir (i.e., the navigation channel) indicate that silts comprise less than 30 percent of these sediments.

Also see responses to Columbia River Intertribal Fish Commission's comment 21, and Save our Wild Salmon's comment 16.

Organization

U.S. Environmental Protection Agency Comment 14

recommend that the Corps convene the LSMG and utilize their input in the further development of LSMG has been formed, the EIS shald identify the members of the group and present a summary of the input they have provided to the development of the plan. If it has not been formed, we The EIS should be revised to clearly indicate whether or not this group has been formed. If the he plan.

Response

Sections 7.8 and 6.2 state that the LSMG has been formed. Section 1.8 has been revised to more clearly indicate that the group has been formed and has had several meetings. This section has also been revised to include an expanded list of participants. Section 6.2 summarizes what was discussed at the LSMG meetings that have been held to date.

Organization

U.S. Environmental Protection Agency

Comment 15

agencies/entities that have jurisdiction and/or are capable of influencing activities and practices Ve recommend that the objectives of the LSMG be expanded to address sources of sediment and their control. We also recommend that membership of the LSMG be expanded to include that contribute significantly to sediment inputs into the Snake and Clearwater Rivers.

Section 1.8 has been revised to show an expanded list of participants in the LSMG. This section has also been revised to indicate the LSMG will address sediment input from upstream sources.

Final DMMP/EIS July 2002

Valla Walla District U.S. Army Corps of Engineers

Organization

U.S. Environmental Protection Agency

Comment 16

The EIS should expand the discussion of the LSMG to include a description of the group's role in decision-making processes by the Corps (or others) associated with managing sediment in the project area.

Doenones

Section 1.8 has been revised to better describe the rde of the LSMG in the DMMP and dredging activities.

Organization

J.S. Environmental Protection Agency

Comment 17

A critical element in any successful adaptive management strategy is the design, implementation, and interpretation of an effective, well designed monitoring plan. We recommend the monitoring plan for the DMMP be designed with the active involvement of the LSMG.

lesponse

The Monitoring Plan is presented in Appendix M of the Final DMMP/EIS. Because the DMMP is a long-term plan that proposes an adaptive management approach to dredged material management, the Monitoring Plan will, of necessity, be a "living document" that provides the flexibility to change over time. The Corps will consider public comments on the Monitoring Plan received through the NEPA process, and will work with the LSMG to adapt the Monitoring Plan over time.

Organization

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Comment 18

We are concerned that the monitoring plan was not presented for public review in the draft EIS as the success of the DMMP will rely heavily on the manner in which plan performance is monitored. We recommend that the monitoring plan be included in the EIS and it should include a public involvement component to afford the public and opportunity to help shape the plan.

The monitoring program is included in the Final DMMP/EIS as Appendix M, The Final DMMP/EIS has been distributed for public review.

Organization

U.S. Environmental Protection Agency

Comment 19

In general, we have concerns that two project alternatives have been eliminated from detailed consideration and evaluation because they do not represent complete, stand-alone solutions to the sedimentation problems in the project area.

Response

In keeping with the requirements of NEPA, the Corps identified and evaluated a broad range of

Final DMMP/EIS

July 2002

U.S. Army Corps of Engineers Walla Walla District

Appendix O
Response to Comments

allematives that may fulfill the program's purpose and need. Several alternatives were evaluated and eliminated for not fulfilling the purpose and need (see Section 2.2. of the DMMR/EIS) am not providing a comprehensive solution to sedimentation and ravigation maintenance within the study area.

Explanations of why the two specific alternatives referenced in the comment were eliminated as major components of any program alternative are provided in the DMMP/EIS and in the responses to Comments 20 and 21, below.

However, as the Corps identifies locations where sediments are accumulating and may require dredging, potential non-dredging solutions will be evaluated. While measures to control whyteran sediment sources and bendway weirs do not represent substantial, complete, or, in many cases, feasible stand-alone solutions to the issues addressed in the DMMP the proposed adaptive management program provides an opportunity for on-going evaluation of these and other measures to address sedimentation and dredged material management issues.

Organization

J.S. Environmental Protection Agency

Comment 20

While we agree that changing upstream land uses is "not a complete solution to maintain navigation," we believe that evaluating this critical component is a necessary part of the development of a plan to successfully and effectively maintain the authorized navigation channel and flow conveyance of the Lower Grante reservoir.

Lesponse

As noted in the DMMAPEIS, the authority of the Corps of Engineers to substantially affect upstream sediment inputs to the lower Snake River system is limited. However, opportunities are afforded through the DMMP process, and in particular through the LSMG, to evaluate and identify regional sediment management issues including upstream land uses and sediment sources. In particular, the LSMG will be expanded to include representatives of agencies that are directly involved in upstream land management, such as the U.S. Forest Service and the Natural Resources Conservation Service. Furthermore, bendway weirs or other appropriate non-dredging technologies may be considered at other locations to address sediment reduction on a case-by-case basis. The Corps and LSMG may evaluate use of such a technologies in the future, within the framework provided by the DMMP.

Organization

U.S. Environmental Protection Agency

Comment 21

We believe an evaluation of potential locations for the use of bendway weirs (along with necessary analyses/modeling) should be conducted as part of the development of the proposed management plan as the use of weirs could potentially reduce the need to dredge and dispose of dredged materials.

Response

In-water structures such as bendway weirs have been looked at in the past and were evaluated as part of the development of the DMMP (See Section 2.2.3.2 of the DMMP/EIS) Structures like bendway weirs can increase water velocity and impact flow direction, but sediments will accumulate behind them. Specifically, bendway weirs would not be appropriate in the

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

overtopping of the levees. Both keeping the navigation channel clear and keeping the high flow Lewiston/Clarkston area since they would raise the water surface during high flows and cause water surface level down are the goals of the plan. Bendway weirs may be appropriate in other areas where water surface elevation isn't as critical as dredging technologies may be considered at other locations to address limited sedimentation on a at Lewiston (See response to Comment 19 above). Bendway weirs or other appropriate noncase-by-case basis. The Corps and LSMG may evaluate use of such a technologies in future, within the framework provided by the DMMP.

Environmental Protection Agency

Comment 22

We recommend that the proposed DMMP and EIS be revised to more clearly describe the manner demonstrate that the beneficial uses identified are indeed beneficial (particularly the creation of in which the presently preferred alternative (Alternative 4) would be implemented and salmon habitat).

The description of the Corps' efforts to identify, evaluate, and implement beneficial uses in Section 2.5.4 of the DMM/PISIS has been revised to provide greater detail, as noted in the comment. The Corps' Engineer Manual 1110-2-5 provides guidance on beneficial uses of dredged material. In general, identified beneficial uses will be evaluated based on a number of factors. When more than one potential beneficial use has been identified and determined to be feasible, the uses will oe compared based on cost-effectiveness, likely participation of a non-Federal sponsor, and ncremental analyses to compare the alternatives' environmental benefits per unit cost.

Organization

Environmental Protection Agency

Comment 23

conducted during windows when salmon would not be around do not appear to be supported. We consequence, statements in the EIS that impacts would be negligible because work would be Information exists that indicates salmonids are in the lower Snake River year-round. As a discussion/analysis to support the conclusion that impacts to salmen would be negligible. recommend that the EIS be revised to discuss this issue and include additional

Regarding the dredging operation, the DMMP incorporates efforts to avoid salmon and steelhead individuals and runs. Some fish will be difficult to avoid, but the dredging technique chosen (clamshell) has the least potential of capturing fish.

According to Williams and Bjornn 1998, "A small proportion of hatchery and natural subyearling history and typically outruigrate seaward during the summer as subyearlings. (Tiffan et al, 2001). released in 1995, the number that overwintered and migrated seaward as yearlings in spring was 'negligible" effect on anadromous fishes. Fall chinook typically have an ocean type rearing life fall chinook salmon residualized and migrated early in spring 1997; however, as with fish The DMMP/EIS acknowledges that the proposed alternatives would have more than a

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Appendix O
Response to Comments

Section 3.1.1.1.3 and in Appendix F that proposed activities may affect fall chinook salmon by small and did not effect survival estimates." Therefore, the Corps does not believe that a "high proportion" of fall chinook over winter every year. Never the less, the DMMP/EIS states in

J.S. Environmental Protection Agency

Comment 24

We are concerned with the lack of information, or reliance on very old data (circa 1973), used to Lake Wallula and salinity/conductivity and toxic substances upstream of the Lower Granite dam current baseline information related to nutrients, toxic substances and salnity/conductivity in characterize current (baseline) water quality conditions in the draft EIS. We recommend that be gathered and presented in the EIS.

Response

The DMMP/EIS has been revised to summarize these data as they pertain to the proposed action. In addition, the Lower Snake River Feasibility Report EIS includes baseline information on water quality, and is incorporated by reference. See Section 3.9 and Appendix H of the DMMP/EIS for he enhanced discussion of water quality data.

U.S. Environmental Protection Agency

Comment 25

The draft EIS provides little evidence that required government-to-government consultations with conducted in consultation with the governing bodies of affected Tribes, consistent with EO 13175 address issues concerning Indian tribal self government trust resources, and Indian tribal treaty government will continue "to work with Indian tribes on a government-to-government basis to Consultation and Coordination with Indian Tribal Governments) which states that the US affected Tribes have been conducted. Further development of the plan and EIS should be and other rights.

consultation with the affected Tribes. The DMMP/EIS states that consultation has been initiated, out does not state or imply that consultation has been completed. The Corps intends to complete Section 6.4.3 of the DMMP/EIS provides the current status of government-to-government consultation prior to signing a Record of Decision.

Organization

U.S. Environmental Protection Agency

Comment 26

evidence that the necessary analyses have been conducted. Identification of potential impacts and discussion of Executive Order (EO) 12898 (Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations) and the proposed plan, the EIS presents no Environmental Justice Analysis - While Section 5.25 of the draft EIS presents a very general mitigation measures, developed in consultation with affected minority and/or low-income populations, must be included in the EIS to meet the direction of EO 12898 and the accompanying memorardum from President Clinton to the heads of all Departments and

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

three major components: I) Identification (including maps) of all low-income and people of color communities in the area that would be impacted by the proposed project. 2) Comprehensive Agencies. The Environmental Assice analysis prexented in the EIS should include the following disproportionately high and adverse effects to the low-income and people of color communities. accounting of all the impacts on low-income and people of color. 3) Identification of Response

Federal agencies mission "to the greatest extent practicable and permitted by law, and consistent with the principles set forth in the report on the National Performance Review." This Executive Order (EO) states in Section 3-302, "... (a) each Federal agency, whenever practicable and appropriate, shall collect, maintain, and analyze information assessing and comparing environmental and human health risks borne by populations identified by race, national origin, or income. To the extent practicable and appropriate, Federal agencies shall use this information to determine whether their programs, policies, and activities have disproportionately high and adverse human health or environmental effects on minority populations or low-income populations." As pointed out in the comment, the Draft DMMPEIS considers rather broadly the McNary Reservoirs. As such, the potential environmental impacts identified are not anticipated potential effects of the alternatives on environmental justice populations, concluding that the proposed plan is consistent with the intent of the EO. The DMMP/EIS is a programmatic plan Executive Order 12898 states as a goal to make achieving environmental justice a part of each to be borne disproportionately by any particular community or demographic group within the navigation channel, dredged materials, and flow conveyance in the lower Snake River and and environmental evaluation that considers a long-term strategy for management of the

data for the study area to demonstrate where environmental justice populations may be located in relation to the project area. The findings are documented in Sections 3.6 and 4.6 of the Final In the Final DMMP/EIS the Corps has presented a more detailed examination of demographic DMMP/EIS. U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002

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1116 T Errect a Lewiston, Idaho \$3601-1930 a (200) 720-4270

January 3, 2002

helt Sanda, Project Managor U.S. Array Corps of Engineers Walls Walls Direct 210 North 3t Avenue Walls Walls, WA 99362-1876

RE: Dredged Material Menago Statio River Reservoirs

Dear Mr. Sunds,

The Lewiston Regional Office of the Department of Earlineaneand Quality on the Carps of Engliseer's programments pleas for melaneance of the author Souke River reservoirs between Lewiston, Make and the Columbia River.

The designated beneathcial meas presected under the Idaho Weter Quality Standards in the Lower Stathe-Assain Subbasin, Hydrologic Unit Code 17060103, from Atolia Cond. to the Lower Grasia Dampool are cold water bion primary contest recreation, and domestic water supply. This section is not correctly listed as a water quality limbed segment on the Idaho section [301(d) list, here is a water quality imbied segment on the Idaho section [301(d) list, here is a water quality imbied segment on the Washington [301(d) list,

The designance branchish was protected under the Idaho Water Quality Standards for the Cicurester River, Systember Unit Code 17060196, from the confluence of the Nieth Foot Clearwater River to the Washington Sta-ins, are cold washe bloth, printency combes recension, and domestic water supply. This section is a water quality simple segment on the Idaho §103/4) list for notal distarted gas. A Total Mancimum Duly Lond (TMDL) is the sa-ne completed in 2003.

Dradica activitas stati pot tradi la s viojbidos of specific suffice water quality criteria for the above strenkom designand tue classifications as hitted in the provisions of DAPA 35.01 ft2 250. Monthoring the in-water early is required to quapes (dates States quality stradards are being gret.

5

Piense he saivised that a Total Maximum Dally Load (TMDL) allocation for emperature is being developed by the U.S. Environmental Protection. Agency for the Saatze River, from the confluence of the Salason River to in conflicence with the Calambia River. DBC is the states agency responsible for implementing the providence of the TMDL for the section of the Saatze River from the confluence of the Salason River to the IDWA bender. DBC 31st \$24 LB and 10.142 method documentation of dredging effects on wher quality for this section for purposes related to the IDML and the interpretation. In addition, the IDML comit requires a further relation to pollutant discharge to further restoration from this proposed, project.

3

As a John participant in the DAGEP, EDA is the agency responsible for coordinating stars water quality agencies and sensitivity of Case Water Act coordinates across state boundary lines, A georgitation to developed the Water Mail Water Market and Case Water Market Mar

8

As per Idiabo's #401; water quality certification guidence, each deolging sativity, including Corps eivil worth deolging sativities and has Corps deolging sativities will be reviewed by IDEO prior to the active of the latting of a person. The satisfact of disho will consist with the Corps to determine if the satisfact of disho will consist with the Corps to determine if the satisfact person is additiously person in a Nationarial so that the satisfact will require application of Bast person with regions occurrent. #401 water quality contribution will require application of Bast Management Practices to consoling anhalty dering the developing estimately. A summersy report will be prepaised by the Coaps and provided to IDEQ providing BARF effectiveness in protecting water quality.

Coincident with these resids will be as increase in evallable information on actinum and weter quality if the brew State Eiver Chamies. The brew State Eiver Chamies Bernardou Villable in the Chamie Bernardou Villable in ward chas will be collected from its 70-per 4 weath of the drift goed subvision and about to provided in an activity report to DDG, IDEQ recommends the DDA-PFEEL includes Bernardou to DDA-PFEEL includes the activities are quality remagament after the confinement of the State 184 Charlouder Reveil. We appoint recolated as a confinement of the State 184 Charlouder Reveil. We appoint recolated as a confinement of the State 184 Charlouder Reveil. We applied to water quality and the demander.

The executive scennary proposed maing the Levisina leves as a method in minimize struighing in order to mark a 20-year goal, yet the subschol alternative also was to provide a project life which explasts in 2014. The leves are being raised in lannage coveryment, which, has bose reduced by sedimentation.

ø

How does reducing sodingers proving degree forms raised. More is the executors as he maintains. The the To-war nine des explanes. Done the proposed plan grate to forms have raises not executorly.

i sa li memer in poni elevation emperad in pervisio conveyment "If en has the fifty of insequent Potentie basis in regala de definition through the sides screener bess evaluated? Will the exacts energing listinities the independent -

The City of Lowiston and the Corps will have to ment Clean Water Act NPDRS stormwater quality regulations in the near father. If the pool elecation is increased, and infilturion mass do increase, the residence than in the existing screage and normwater collection system will degreese. Will this advisite the quality of the purposed discharge to the receiving street;

00

Flusk you for the opportualty is provide comments on this proposed project. If you have questions or concerns regarding these comments, please coulant nor affice at (208) 799-4370.

Sindy Dames

Clody Barrett Watershed Monitoring Coordinator

OC: Sendy Simmons, ACOE, Walls Walls former Hansen, IDFG, Lewissen.
Dong Abderbalden, IDEQ, Boise

idaho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator Comment 1

Dredging activities must not resul in a violation of specific surface water quality criteria for the 58.01.02.250. Monitoring the in-water activities is required to ensure Iddho State water quality above mentioned designated use classifications as listed in the provisions of IDAPA standards are being met.

activities to ensure compliance with applicable water quality standards. A sampling and analysis plan will be developed for each dredging activity, and submitted to IDEQ for review as part of the Clean Water Act 401 certification process. The DMMP Montoring Program is included in the The Corps has in the past and plans to continue monitoring water quality during dredging final DMMP/EIS as Appendix M.

daho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator

Comment 2

section for purposes related to this TMDL and its implementation. In addition, the TMDL could IDEQ asks that the DMMP include documentation of dredging effects on water quality for this require a further reducton in pollutant discharge or further restoration from this proposed

Snake River, from the confluence of the Salmon River to its confluence with the Columbia River. The Corps routinely monitors temperature at established total dissolved gas monitoring stations in depth in the confluence area and the amount of water exchange occurring in the reservoir, impacts Lower Granite Reservoir. When dredging operations are conducted during the winter, the overall Because of the relatively small surface area of the proposed habitats, combined with the increased dredging of backwater areas may have a localized effect on water temperature, but it would not to the overall reservoir temperature are anticipated to be relatively minor. Also see response to be expected to have a measurable effect on water termperature in the reservoirs. Creation of he Corps acknowledges that a TMDL allocation for temperature is being developed for the effect of dredging on reservoir temperature is expected to be minimal. Potential summer shallow water habitats is expected to result in localized near-shore temperature increases. the Environmental Protection Agency's Comment 10.

daho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator

Comment 3

responsible for implementation of the provisions of the Clean Water Act in their rapective A coordination plan should be developed for Washington and Idaho, as these states are sections of the Snake River and this activity.

Although a specific coordination plan has not been developed at this time, the Corps will continue to coordinate with the Idaho Department of Environmental Quality, the Washington Department of Ecology, and the Oregon Department of Environmental Quality, as well as the U.S. EPA, for Clean Water Act compliance throughout the implementation of the DMMP. The LSMG and Dredged Material Evaluation Framework present specific opportunities for continued coordination.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

daho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator

civil works dredging activities and non-Corps dredging activities will be reviewed by IDEQ prior urbidity during dredging activity. A summary report will be prepared by the Corps and provided As per Idaho's 401 water quality certification guidance, each dredging activity, including Corps determine if the activity required an individual permit with public review and 401 water quality quality certification will require application of Best Management Practices for controlling certification, or a Nationwide permit with regional conditions. Clean Water Act 401 water to the activity, or the issuing of a permit. The state of Idaho will consult with the Corps to to IDEQ providing BMP effectiveness in protecting water quality.

activity. IDEQ will have input into each dredging project through the Clean Water Act 401 certification process. Further, the Corps will coordinate with IDEQ, and other appropriate water The Corps will continue to work with IDEQ regarding the implementation of each dredging resource agencies, in the assessment of BMP effectiveness in protecting water quality.

daho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator

Comment 5

IDEQ recommends the DMMP/EIS include provisions for continued water quality management forts in the confluence of the Snake and Clearwater Rivers.

Sediment and water quality data collected as part of dredging activities will be provided to IDEQ The DMMP addresses water quality associated with dredging and dredged material management. as it becomes available. Information gathered during each dredging project will be considered when planning future dredging projects within the 20-year period. The Corps will continue to work with IDEQ throughout the implementation of the plan. IDEQ will also have continued Overall, water quality in Lower Granite Reservoir is associated with operation of the project. nput through the Clean Water Act 401 permitting process.

daho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator

Comment 6

How does reducing sediment removal prevent future levæ raises? How is the conveyance to be The levees are being raised to increase conveyance, which has been reduced by sedimentation. maintained after the 20-year planhas expired? Does the proposed plan result in funre levee raises not currently addresse?

in conjunction with the reduced sediment removal and is expected to provide the desired conveyance and level of flood protection through the year 2074. The need for levee raises would Reducing sediment removal does not prevent future levee raises. The levee plan was developed be re-evaluated after 2074 based on conditions at that time.

Final DMMP/EIS July 2002

Idaho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator

Comment 7

increased head in regards to infiltration through the dike structure been evaluated? Will the ls an increase in pool elevation expected to provide conveyance? If so, has the effects of existing pumping facilities be adequate?

thus, provides conveyance while maintaining a designed level of protection. The normal pool operating elevation would not increase as a result of the proposed leve raise. During normal operating conditions, the water level would remain at its current elevation, so there would be no The proposed levee raise provides for increased pool elevation during extreme flood events and increased head and, thus, no increased infiltration.

were conducted. However, the pump stations behind the levee system are designed for the 100-year storm water event and are anticipated to be adequate to control infiltration associated with flood everts. Additional storm water flow from flood infiltration to the storm water pumping occur, and as such, are not expected to result in substantial amounts of infiltration. No specific standard project flood. Flood events provide a temporary condition in which infiltration could Infiltration could occur during high-flow (i.e., flood) events, such as the 100-year flood or the evaluations of potential changes in infiltration rates associated with the proposed levee raises system is anticipated to be minimal.

Organization

Idaho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator

Comment 8

existing seepage and stormwater collection system will decrease. Will this adversely affect the If the pool elevation is increased, and rifiltration rates do increase, the residence time in the quality of the pumped discharge to the receiving rivers?

stormwater collection system directly by overflow which would have a greater adverse affect on stormwater collection system and impact the quality of the discharge. However, such events are expected to be infrequent and of limited duration and the impacts are anticipated to be minimal. The levee raise will better ensure that the river waters do not inundate the existing seepage and The increased pool elevation during flood events does have the potential to reduce residence time in the The levee raise is not expected to increase the normal operating pool elevation.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District



IDAHO FISH & CAME WING CLEARWATER REGION 1500 Women Annual Lenning, Address XXXXII-5609

Kompilaries / Contract

Jenuary 7, 2002

Lisutement Colonel Richard P. Wagenaur Department of the Army Walls Walls District, Corps of Engineers ATTN: Designed Material Management Plan 201 North Third Avenue Walls Walls, Washington 99362-1876 RE: Draft Dredged Material Management Plan and Environmental Impact Statement

Dear Colonel Wagenaur

Thank you for the opportunity to review the draft Dredged Material Management Plan and Environmental Impact Statement (DMMPRES), McNery Reservoir and Lower Snake River Reservoirs. Our comments sugment those which we previously provided on the preliminary draft of the DMMPRES in November 2000.

Alternatives

The four alternatives analyzed do not cover a wide nor creative range of solutions for the serious, long-term problem of sediment accumulation and decreasing flow converges, and caracter in Lower Granite Reservoir. All include dredging and dredge disposal, and firms include a three-foot lever raise. All of the alternatives including the preferred are costly and offer only short-term solutions to a very complex long-term publish.

Several issues that we raised in our November comments were either not addressed or not addressed fully in the DAGAP/EIS. For instance, we suggested that the DAGAP/EIS ricelaries a more fully developed tanges of alternatives, including more natural processes for sediment tentowal and transport, Alternatives such sums sediment "flushing" event abound be entailyzed. White a flushing alternative may require seasonal modifications to reservoir operations, it may prove to be less expensive and provide more benefits to mignifing anadromous fish than existing alternatives. We asked that the DAGAP/EIS theoroughly explored the commission of sediment and the benefits of the State of classes against each and of flow anguestical way as required that the DAMAP/EIS more thoroughly evaluate potential changes in velocity, temperature, arrole tavel time, survival, crowding, and disease exposure of listed stocks in each alternative. We are all alternative. We miggested that the DAMAP/EIS evaluate the use of flows from

Kanjaka Edualoga - 384 195-196 - Fax 186-196 - Fax 186-196 196-196 - Fax 186-196 - Fax

S. Dworklak Dien to inches admit steethead nervement spatream into the lower Clearwater. River micr and during the winter work window. We also requested a complete analyza of the effects of the dweltoment of challow water habitats, in combination with the long of the securalistics of sections in the super sections of sections with the long.

Sediment Accumulation

Approximately 3.2 million cubic yards of rediment accumulates annually in Lower Granite Reservoir. Specific amounts very year to year. An examination of sediment columns exposed during the 1992 experimental reservoir drawdown suggests that at least 3 foot of sediment ten be accumulated during high water years.

Under the Preferred Alternative, approximately 300,000 cubic yards of sediment will be dredged every two years, primarily from the 14° by 250′ navigation channel. This represents only 5 percent of the armed build-up of sediment.

Based on a 484 flourisnd scre-feet capacity of Lower Granite Reservoir, sodiment recruitment represents approximately a I percent reduction in total reservoir capacity every two to three years. Over the next 100 to 150 years, the reservoir capacity can be expected to decrease by approximately 50 percent.

Eccuses most of the sediment is generated from land use activities in the upper part of the watershoot, it is important that the Corps work closely with other agencies and the public to address on-going upstream evoluin. The DMMP/EIS should provide additional qualities on this issue.

The Preferred Alternetive includes a proposed 3-floot leves raise in Lewiston, to replace flow conveyance bot to sediment build-up in the reservoir. With almost 3 million cubic yards of sediment accumulating annually in the reservoir, how long will it be before the next leves raise is proposed? If we understand the analysis correctly, a 10th year event can be expected to eventop raised leves near the end of the planning period (75 years) absolout the analysis in the DAMAPPIES, the next ferver raise will require extensive and expensive infrastructure changes, including raising or modifying several bridges in the Lewiston area.

Leves raises effectively raise the elevation of the river further above the city during flood events. Idealing to potential long-term drastic consequences during flood events. We have consistently learned these lessons along other rivers of the country, with the Missistippi River perhaps the most high profile. We are elisapointed that the DMMAPJEIS does not stain've and discuss notatibals knowled the implications of flature leves raises, drawing on g. veriety of available camples.

Should we care today about the long-term prognosis for Lower Granite Reservoir? We think to, as polutions are likely to get more expensive and complex in the fauter. We feel that the Corps, through the DNMPIRIS process, has a renomiability to the public and

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future acceptations of Idahoans to provide a realistic description of these projects 73 years and beyond, and potential ramifications to the public and fish and wildlife resources.

Sediment Dispessi/Bezeificial Use

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12

We are in favor of utilizing dredge material to create favorable tabitats in the reservoir where possible. We remain somewhat atendrical of the degree of benefit however. We flactoce that the Discential of the degree of benefit however. We abstract that the Discential of the blood favorable will the blood to the lost impoundment conditions (Appendix F.57). How stable will the artificially created habitats be long-term in light of fluctuating reservoir barels or wave action? How soon will they be covered with all and provide the same poor quality of babitat as most of the rest of the reservoir? Appendix F reported that under a so project alemative, about 2 inches per year of the section water disposal site. Under the Preferred Afternative, won't this site accumulate on the surface of the same authority the securitation of the surface of the sand substrates?

We are not convinced that the shallow water habitate created will not accentuate predation by smallmouth base or nothern pite minnova. The DAMAPERS suggests that species such as smallmouth base prefer larger substants than juvenile chinook extron. While we generally agree, we assume that higher temperatures and presence of juvenile, chinook forev) will likely be stronger attractuals to smallmouth these than tobstrate size.

Appendix G montions that the disposal site near RM 116 was selected because it could provide suitable resting/rearing tabitat, would not interfare with ravigation, wouldn't harm cultural resources, and would be of sufficient size to accommodate dredged material for sovered years. How many years is sover, and what other disposal sites oxist connection fits, life of the project and beyond? The Corps is still in the process of connection far, life of the project and beyond? The Corps is still in the process of connections as Fearibility Study to evidents and beyond? The Corps is still in the process of connections as the survival of luvenile anadyonous fish through the Lower Stude Reservoir system. Disposal into selected should not commomise the shilliv of the Corps to implement of other potential long-term changes in management of the Lower Sinke River reservoir system.

4

S

The DMAMP/ELS concludes that the creation of shallow water habitats will have neglible effects on temperature. This may be the case in the near term. However, over the long-term, exceeded shallow water habitats in combination with the accumulation of 3.2 million temperatures of sediment annually in the upper end will exceedate water temperature problems caused by the original impoundment. Among other things, high temperatures can negatively effect adult anadromous fish migrations, therefore impacting Corps miligation obligations.

10

Impacts of Dredge Operations

Advering to the winter work window (December 15 to Murch 1) during dredge operations will reduce but not eliminate potential impacts to a variety of aquatic

- 17 resources. We feet that the phrases "narraless" or "easily avoidable" (Appendix F-60) are not appropriate in describing potential impacts of deciging operations to fish populations.
 - 18 Azalvate of potential impacts to stockload is undertested in the DMMP/ELS. During some winters, a relatively high percentage (at load 40 percent) of Cleurwiser B run stockload are in the Lower Granite pool during the winter work window. The implied correlation between lack of fisherman and lack of fish at the confluence is not securate in all years.

A small percentage of juvenile full chinook will also over winter in the Lower Geanies pool. Data indicates that the yearing full chinook that outmigrate the second year exhibit a bigizer Smolt to Achil Rectur (SAR) ratio than 0 age full chinook. Some potential to entrain these fish exists during dredging operations.

Limited data is available on the presence of different life stages of lamprey in Lower Granite Reservoir. As the DMARPELS points our, some evidence suggests that ancoodes may be in the substrate in the reservoir bottom. Careful incultainty during dreing cosmission of dredge puberials, will be necessary to ensure that improve annocates or other juvenile flak are not entrained.

2

21 The DMMP/EIS provides a fairly detailed snabynis of white sturgeon data from Lower Granits, but docan't cover any potential direct impacts to surgeon while conducting drades occasions in the whiter.

Thank you for the opportunity to provide comments on the DAMAP/EIS. We are kopeful that the Corps can work with other agencies and the public to davelop reasonable long-term solutions to sectionent and flow conveyrance, and accompanying aquatic resource issues in Lower Grenite Reservoir. Please contact Jerome Hansen (208-799-5010) of this office if we can provide additional information.

Sincerely,

Carl

Cal Groen

Clearwater Regional Supervisor

cg/jh/ss

c: Cindy Barrett, DEQ

Virgil Moore Ed Schriever

racey Trent, Natural Resources Policy Bureau

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IDANO FISH & GAMB = 600 South Walout P.O. Box 25 Boist, Maho 83707-0025

Derk

November 27, 2000

Dirk Remytherns / C

Mr. back Stands
US Army Corps of Engineers
Walls Walls District
201 North Third Ave.
Walls Walls, WA 99362

Dear Mr. Sands,

Pursuant to Gregg Servicent's briefing with you in fully on the Dredged Maisrisi Management Plan (DMMD), the Jahro Department of Fish and Game (Department) stibrnits the enclosed comments. The comments are based on a preliminary draft of the proparaments DMMP EIS. Our inchershanding is that the U.S. Army Corps of Sugineers (Corps) and the Environmental Protection Agency are just finishing up an internal review of the preliminary draft DMMP EIS.

An "interior" document that just addresses this winter's drugging for port access it already out for comment. While our comments are more focused on the programmate EIS, there is relevance to the abort-term action proposal and there may be aspects of our comments that the Corps may want to consider while finalizing a public seview wast for the programmatic EiS.

If you have any questions regarding the Department's comments, please contact Gragg in our Clearwater Regional Office at (204) 799-5010. We would also like our comments thereof with the Regional Dredging Team.

Thank you again for your time. Please beep the Department involved in this important analysis and project.

Virgil Moore, Chief

Encloanne

ii 1, Yoot, Governors Office T. Trent, IDFG S. Pennay, NPT Fish Passage Advisory Committee

C. Groen, DFG A. Eby, DFG Conmission NAFS, Olympia

Amping Statute Wildlife Recing

Comments on the US Army Corps of Engineers' Draft Dredged Material Management Plan Environmental Impact Statement

idaho Department of Fish and Game Boise, Idaho November 27, 2000 We appreciate the opportunity to comment on the US Anny Corps of Engineers' (Corps) Draft Drokpad Maistrial Management Flue (DMMP) Environmental Impact Statement (ELS) for the lower States River. This is a very important project affecting the communities of Lawiston, Charleton, and the conservation of fish stocks in Idaho listed for protection under the followed Endangered Species Act (ESA).

Since implementation of dredging in Lower Granits pool, several things have changed that main it importables that EIS and any interim dredging projects be more carefully evaluated than is done within the draft EIS. The primary changes, of course, have been the continuing decline and subsequent listing of anadromous salmon and steelbard species.

The Lower Granius reservoir impoundment has reduced entietrate and riperian cover for reating and predator avoidance during commignation, reduced water velocity in the impoundment pools, increased the number of predators, and changed water introperstures. The increasing buildup of seduces in this time hower Granic pool and subsequent reduction of channel capacity and flow conveyance in this upper reaches of the reservoir may also be contributing to temperature problems caused by the impoundments in the lower Stake River.

We understand that approximately 1.2 million yards of sediment currently collects in Lower Granize Reservoir surnaily. Most of this sediment accumulates in the upper section of lower Granize Reservoir at the confluence of the Charward and Stake Rivars and it impinges on the Ports of Charkand and I emission, and the recreation area of these cities. At no bine since the beginning of the dradging regimen in lower Chanite Reservoir in 1982 has the Corps removed more than 31% of that total annual accumulation of sediment in the project most of the dredged sediment has been diposed its lower nearlies of the reservoir. Based on a 48st housand sore-lest expensity of Lower Granize Reservoir, this sediment recruitment represents approximately a 1% reduction is total reservoir, where all of fidelse's juvenile and adult salmon and steelhead must surface water elevations associated with flood discharge. Another effect is accumulating sediment has been to reduce channel capacity and increase surface water elevations associated with flood discharge. Another effect is that surface area of the reservoir, when the reservoir is reservoir.

See 16 The effect of not being able to maintain decige removal consistent with decige securities on during the past 25 years and for the foresteeble 20 were of the DAMP may exceede a water temperature mobilisms caused by the original impoundments. Increased water temperature can impair juvenile and adult estimon and steeblested mignifican. Delayed cooling of the impoundments

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in the fall can impair afult steelhead and fall chinook movement into the Snake and Clearwater rivers. This effect is not specifie to listed falt, but can also impact non-listed hatchery steelhead available to tribal and sport fisheries in Idaho.

Although the contribution of sedimentation to this water temperature problem may be relatively small, the accumulating effect may further threaten the conservation and potential recovery of listed alathorn and stockbed aboeks within the Station River busin. For example, current Federal Columbia River Fower System (FCRPS) operations require lists to provide approximately 2 million scre-feet of flow augmentation annually in an attempt to address water velocity and water water velocity and temperature concerns in the lower Snake River. The shility of flow augmentation to address water velocity and temperature concerns is relatively miner, but the augmentation pensies in spile of significant impacts to other State instructs. One of our concerns is that continuing sedimentation will further reduce any benefits of the State's significant contribution of flow augmentation. The DMAMP EIS should theroughly address this concern.

In light of decreasing channel capacity in Lower Granite Reservoir, and the potential for increasing water temperatures, the Department believes the DiMMP can directly affect States Nive statutors and survival. We recommend the DMMP fully assess lower States River invenile salmon and survival. We recommend the DMMP fully assess lower States River invenile salmon and survival. We recommend the DMMP fully assess lower States River invenile salmon and steelined migration and survival at I may be affected by years of the project. The programmatic RIS should more thereughly evaluate the change in yelocity, permograms, resting/seculing habitat, smoll travel time, survival, crowding, and disease amount to contact to their statuto and statistical converts changes should be assessed within the contact of other salmon and statistical convery measures and the oversil net impact to water temperature, water velocity, fish mignificit, and survival.

22

We understand the levee system surrounding Lewiston is not designed to provide flood control to Lewiston but rather to prevent intudation of the city. The draft ElS evaluated modifying the Lewiston but rather to prevent intudation of the city. The draft ElS evaluated modifying the Estiviting Lewest by 12, 8, 4, and 3 feat. Modifying the levest does not appear to fit within the DMMP project purple. The leves were designed and contentued to be an upstrain axions of the dam to allow Lower Granite Reservoir to past a Standard Project Flood (SFF) event while protecting Lewiston from immedsion. Any modification of the levers is a modification of the allow the reservoir to past the SPF, but may also contribute to the decliming pool and water quality conditions and thus increase potential threats to recovering tisted fish stocks. We request the allow the reservoir to past the SPF, but may also contribute to the clouding the collect flower shall be included and assessed within the context of the Lower Snake River Inventic Salmon Mignation Fastibility. ReportEnvironmental Impact Statement.

23

24

25 See 2

Based on the scope and duration of the DMMP and the potential effects described above, as recommend the DMMP EIS include a more fully developed range of alternatives that provides enhancement of migrating anadomnous fish. It does not appear the first DMMP has fully explored more natural processes for sediment removal and bransport. For example, due modifications or intriver structures to increase water velocity in the main channel can reduce

sedimentation and improve fish migration conditions.

We recommend the DMMP also correlater additional measures to minimize adverse impacts to fish and fatheries during dredging operations. The current work window for the project is.

December 15 to March 31. This work window overlaps with the presence of holding or migrating abilit steellhead. Alternatively, we suggest the DMMP evaluate use of flows from Dworthat dans to induce solul steellhead movement upstream into the lower Clearwater River prov and during the December 15 March 31 work window to reduce the potential for impacts to instead steellhead. Because a relatively high percentage of the listed Clearwate B run (40 -60%) shouldessed will be in the pool and dredging areas at this time, it is limity that dradging activities may have adverse effects on adult streighead. Minimizing the number of steellhead that may be affected by dredging, activities by inducing their movement upstream out of the project area is an site to the dredging activities of movement upstream out of the project area is an into the used if these dangs activities by inducing the object will be maximum flood control levels by early April. Shifting flood control responsibilities and timing, as well as shifting some of the summer flow augmentiation water into the fall and early winter, will ad this effort.

The estimated cost of the dradging project is at least \$21catic yard for invator disposal of dradged material. Costs would go up at estimated 3.4 times for disposal of dradged material in program. Because the pool is maintained by the Lower Charille project, each alternative, including the natural rayer statistical by the Lower Charille project, each alternative, including the natural rayer statistical by the Lower Charille project, each alternative, include by sconnainally successful using local tax cost that support the waterways/ports, operation and maintenance for taxigation, admon mitigation, and occasional foders tools like lock repair. We recompend mis scalysis include the level and potential impacts of dradging required to catch up with shortfalls in the existing dredge program, potential mitigation for declining pool conditions because of sedimentation, and fish and wildlife benefit costs and risks.

The dradge program has born identified as benefiting chinock salmon by providing critical shallow water labitats free from potential predators. While we believe some of those benefit are real, we ask that the EEE assess the availability of similar babitats under a natural river and without dradging the lower Granic pool. Certainly continuing sedimentation in lower Granic pool is also increasing shallow water habitat. The effects of these increased areas of challow water on water temperature should also be considered in the DMMP. Because a 404 permit for dradging requires that in-water disposal he for beneficial use, this determination will need to be made within the EES with full consideration of the risk and potential benefit to all isted fish

28 We request idate Department of Fish and Game be included on the Regional Disting Team identified in the DIMMP EIS.

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Comment 1

The four alternatives analyzed do not cover a wide nor creative range of solutions for the serious evee raise. All of the alternaives, including the preferred, are costly and offer only short-tem long-term problem of sediment accumulation and decreasing flow conveyance and capacity in Lower Granite Reservoir. All include dredging and dredge disposal, and include a three-foot solutions to a very complex long-term problem.

alternatives identified through the scoping meetings and subsequent analysis by the Corps. The range of alternatives meets the project purpose and need. Non-dredging and reduced dredging was unable to identify any non-dredging alternatives that would preclude the need for dredging. Reducing sediment generated by land use practices was considered, but would not eliminate the alternatives were considered. The Corps considered short-term and long-term approaches, and The Corps appreciates the complexity of issues of long-term dredged material management as Corps property, the Corps will use the Local Sediment Management Group to pursue possible need for dredging. Although the Corps has no authority to change land use practices on nonthey relate to the lower Snake River and McNary Reservoirs. The DMMP/EIS reflects the modifications to land use practices.

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Comment 2

We suggested that the DMMP/EIS include a more fully developed range of alternatives, including more natural processes for sediment removal and transport. Alternatives such as a spring sediment "flushing" event should be analyzed.

Response

Spring sediment "flushing" (both with and without drawdown) has been considered in the past, and is not a viable strategy for meeting the DMMP's objectives.

project facilities and major support features and public infrastructure would exceed the benefits of Without drawdown, a spring "flushing" operation would not develop sufficient velocities within the reservoir to pick up significant quantities of materials and transport them downstream. With sediment flushing. Also, flushing would just move the sediment downstream only to potentially drawdown, the sediment flushing could be effective, but the impacts to operations as well as cause problems elsewhere. See also response to Save our Wild Salmon's comment 10,

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accumulation of sediment and the benefits of the State of Idaho significant contribution of flow We asked that the DMMP/EIS thoroughly explore the relationship between the continued augmentation

Response

Flow augmentation has target flows of 80,000 to 100,000 cubic feet per second (cfs) in the spring 31) for Lower Granite Reservoir. Flows in this range usually do not carry high sediment loads in (i.e., from April 10 - June 21) and 50,000 to 55,000 cfs in the summer (i.e., from June 22 - July

Final DMMP/EIS July 2002

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Response to Comments

suspension and, therefore, do not contribute substantially to sedimentation within the reservoirs of the lower Snake River. Higher flows - greater than 150,000 cfs - usually associated with spring therefore, contribute more sedimentation within the reservoir system. Consequently, there is a minor, but unsubstantial, relationship between accumulation of sediment in Lower Granite runoff events tend to carry greater sediment loads (than flow augmentation scenarios) and, Reservoir and the State of Idaho's flow augmentation.

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Comment 4

We requested that the DMMPEIS more thoroughly evaluate potential changes in velocity, temperature, smolt travel time, survival, crowding, and disease exposure of listed stocks in each llernative.

substantially change, smolt travel time will not substantially change, survival will not change, and Clearwater rivers confluence would not be substantial. The position of the navigation channel at The potential change in velocities resulting from dredging the navigation channel to a maximum occurred at the confluence area, this may serve to benefit juvenile salmonids, but would have no the confluence area, in that it is the head of the reservoir and, therefore, has lower velocities, is shallow water area, dredging the channel to navigation depth would reduce the exposure of the impact on adult salmonids, which ruigrate upstream along shorelines. Although the creation of shallow water benches may have a small, localized impact on increasing temperatures in the precisely why the majority of the sediment settles out there. Therefore, if velocities do not crowding and disease exposure will not change. Even if a substantial change in velocities of 16 feet (overdraft) in a 250-foot wide channel at the confluence area of the Snake and river bottom as a whole to solar warming.

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Comment 5

We suggested that the DMMP/EIS evaluate the use of Jlows from Dworshak Dam to induce acult steelhead movement upstream into the lower Clearwater River prior and during the winter work window.

Response

would not be a cue for fish to move upstream. Since a temperature change would not be expected, would have an unknown effect on overwintering adult and juvenile steelkead. The average temperature for water passing through Dworshak Dam at the scroll case in December of 1999. 2001 was 7.13°C (USACE 2002). As dredging would begin in December, a temperature change know of no evidence that indicates that they would. However, if they would, it may also trigger fish of non-Clearwater origins to migrate up the Clearwater River. Another uncertainty is the effect that higher flows might have on juvenile salmonids and Bull Trout rearing in the North Use of flows from Dworshak Dam by spilling water during the winter in water work window steelhead would have to move upstream based on an increase in total river discharge and we ork Clearwater and Clearwater Rivers. in addition, although selective withdrawl may eventually help to minimize entrainment, the food base for bull trout in Dworshak reservoir, kokanee, may be entrained with winter spill with

Final DMMP/EIS July 2002

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Comment 6

We also requested a complete amlysis of the effects of the development of shallow water habitats, in combination with the long-term accumulation of sediment in the upper part of Lower Granite pool, on water temperatures.

shallow-water habitat is created. Although the creation of shallow water benches may have a small, localized impact on increasing temperatures in the shallow water area, dredging the channel to navigation depth would reduce the exposure of the river bottom as a whole to solar Water temperatures may increase at in the immediate vicinity of the locations where new adiation. Overall temperatures of the pool would not increase.

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Comment 7

watershed, it is important that the Corps work closely with other agencies and the public to address on going upstream erosion. The DMMPIEIS should provide additional analysis and Because most of the sediment is generated from land use activities in the upper part of the solutions to the issue.

objective of the DMMP is not to find solutions to all sediment accumulation problems. None the navigation channel or affect flow conveyance in the Lewiston/Clarkston area. Not all sediment ess, the Corps does plan to use the LSMG as a forum for discussion and, potentially, action to The Corps intends to do this through the Local Sediment Management Group. In addition, a entering the lower Snake River system affects navigation or flow conveyance and, thus, the primary objective for the Corps is management of dredged materials that accumulate in the iddress a broad range of sedimentation issues in the lower Snake River.

Also see response to comment 1, above.

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Comment 8

With almost 3 million cubic yards of sediment accumulating annually in the reservoir, how long will it be before the next kvee raise is proposed?

Response

areas, was designed to last through the 2074, which is the project life of the Lower Granite Dam. The preferred levee modification alternative, which includes a three-foot levee raise in selected The proposed levee modification is based upon the best available data regarding sedimentation rates in Lower Granite reservoir. The Corps does not anticipate that future levee raises will be required prior to 2074. It is possible that the levee height may need to be re-evaluated for the

Final DMMP/EIS July 2002

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Appendix O
Response to Comments

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Comment 9

The DMMP/EIS does not analyze and discuss potential long-term implication of future levee raises, drawing on a variety of available examples.

information was used to estimate future need for increased flood protection and the likely costs of "future levee raises" within the economic life of the Lower Granite project are not anticipated and The risk analysis presented in the DMMP/EIS Economic Analysis (Appendix C) does consider a variety of different levee raise and dredging program scenarios from the present through the year 2074, when the 106-year lifecycle of the original project will conclude. The best available Corps does not anticipate that future levee raises will be required prior to 2074 and, as such, that protection. This was incorporated into the development and evaluation of alternatives. were not examined in this DMMP.

evaluate a proposed project by considering the costs of the project over a period of time and comparing those with the benefits over the same period of time. The benefit-cost framework The benefit-cost analysis that was part of the overall hydrological analysis was designed to does take into consideration future implications of a project.

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future generations of Idahoans to provide a realistic description of these projects 75 years and We feel that the Corps, through the DMMP/EIS process, has a responsibility to the public and beyond, and potential ramifications to the public and fish and wildlife.

The dredged material management plan's timeframe is 20 years. The DMMP was developed to be analysis considered amicipated conditions through 2074, the designed economic life of the project, and used the best available data to estimate future needs. Further analysis could be horizon. With respect to flow conveyance and the proposed levee modification, the Corps' as flexible as possible to address future changes in conditions during the 20-year planning required in 2074 to consider how to meet goals for flow conveyance at that point in time.

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Comment 11

We disagree that the placement of dredged material willeffectively mingate for the lost shoreline and shallow water rearing habitat utilized by juvenile fall chinook under pre-impoundment conditions (Appendix F-57).

The Corps believes that all habitat improvement efforts are based on sound science are worthy of the effort. These efforts are not meant to mitigate for all habiat lost due to the impoundment but to provide incremental changes in the habitat to benefit the populations of endangered fish that nay be using it.

Final DMMP/EIS

July 2002

Walla Walla District U.S. Army Corps of Engineers

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levets or wave action? Appendix F reported that under a no project alternative, about 2 inches per year of fine sediment would accumulate across the bench of the proposed in water disposal How stable will the artificially created habitats be long-term in light of fluctuating reservoir site. Under the Preferred Alternative, won't this silt accumulate on the surface of the sand substrates?

in the late 1980s to early 1990s, biological investigations were conducted in the Lower Granite anadromous and non-anadromous fish. Although seven years of research showed a benefit for endangered salmonids, no recent studies have been conducted to determine the continued and long-term viability of these sites as beneficial to endangered salmonids. NMFS has requested shallow water disposal sites. Bennett et al 1995 reported that the underwater island that was that the Coms conduct further investigations into the biological integrity and benefits of the created had moved and redistributed in the deep-water habitat. However, Centennial Island, Reservoir to study the effects of in water disposal on habitat use by various species of created in the early 1990s is still in place and does not appear to be moving Just downstream from the Port of Wilma, is the largest known single rearing area for fall chinook in Lower Granite Reservoir. It is currently composed of sand and is not being covered with silt. The investigations into the continued viability of the created habitat at Centennial Island, as put forth in the NMFS Biological Opinion (2000), would include an analysis of substrate quality. Dredged material placement site will be monitored to evaluate their stability and effectiveness (Appendix M).

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smallmowth bass or northern pike minnows. We assume that higher temperatures and presence of iuvenile chinook (prey) will likely be stronger attractants to smallmouth bass than substrate size. We are not convinced that the shallow water habitats created will not accentuate predation by

were found in the stomachs of fall chimok sampled by Curet et al 1993. Fall chinook on an open sandy flat would be more able to avoid predators, than if they were amidst shorelines in warm predators found were in the larval life stage. Upon reaching a larger size, predators dispersed, presumably searching for cover. In addition, larval fish were one of the food components that Bennett et al 1995 found predators on the sandy areas of the created habitat. However, the water that had a great deal of cover.

professor at the University of Idaho. With a multiple year study design, a lead researcher who is Numerous scientists from federal, state, university and tribal agencies set up the study design in 1987. The researcher involved with many of the studies was David Bennett, Ph.D., a tenured a leading expert in this field, and a study design from the regions leading experts, the Corps believes that the science is sound. (Web et al 1987)

Final DMMP/EIS July 2002

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Comment 14

Appendix G mentions that the disposal site near RM 116 was selected because it could provide How many years is several, and what other disposal sites exist long-term (i.e. life of the project suitable resting/rearinghabitat, would not interfere with navigation, wouldn't harm cultural resources, and would be of sufficient size to accommodate dreaged material for several years.

over the 20-year term of the DMMP. Plates 8-10, 12-13, and 15-16 illustrate the areas identified for shallow-water habitat creation, including the site at RM 116. The proposed woody riparian habitat establishment at RM 132 (Chief Timothy HMU, see Plate 17) and the site at RM 116 would be sufficient to accommodate dredged materials for at least the first two dredging cycles, The Corps identified disposal sites that would be sufficient to accommodate dredged materials based on quantities that are anticipated to be dredged.

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Comment 15

Jower Snake Reservoir system. Disposal sites selected should not compromise the ability of the Corps to implement other potential long-term changes in management of the lower Snake River alternative measures that may increase the survival of juvenile anadromous fish through the The Corps is still in the process of completing a Feasibility Study to evaluate and screen reservoir system.

Section 1.6 of the DMMP/EIS describes the relationship between the DMMP/EIS and the Feasibility Study. Proposed dredging and dredged material management activities would not be inconsistent with the preferred alternative of the Feasibility Study.

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Comment 16

Over the long-term, created shallow water habitats in combination with the accumulation of 3.2 million cubic yards of sediment annually in the upper end will exacerbate water temperature problems caused by the original impoundments.

in the shallow water area, dredging the channel to navigation depth will reduce the exposure of the river bottom in the channel to solar warming. The maximum total surface area of the shallow eservoir, impacts to the overall reservoir temperature are anticipated to be relatively minor. The Although the creation of shallow water benches will result in a localized increase in temperature water habitats proposed over the 20-year life of the project amounts to less than 3% of the total surface acreage of Lower Granite Reservoir (246 acres/8900 acres) and would affect less than 0.8% of the total volume of the reservoir (considering an average 15 foot depth x 246 acres/ 483,800 acre feet). Because of the relatively small amount of influence, combined with the ncreased depth in the confluence area and the amount of water exchange occurring in the

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

stability and water quality characteristics of the area, and will evaluate the effectiveness of these Corps will monitor the habitat creation areas to evaluate the biological activities as well as areas based on the monitoring results.

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We feel that the phrases "harmless" or "easily avoidable" (Appendix F-60) are not appropriate in describing potential impacts of dredging operations to fish populations. The Corps acknowledges that these terms do not adequately describe the potential impacts to fish. populations, nor cause jeopardy to the continued survival of listed fish species (see Appendix F), The proposed dredging and dredged material management activities may adversely affect fish species, including species listed under the Endangered Species Act. However, the activities proposed under the DMMP are not expected to have significant adverse effects on fish

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Comment 18

inalysis of potential impacts to steelhead is understated in the DMMP/EIS.

uvenile steelhead that have the potential to rear in the reservoir areas during the work window, as well as are likely to adversely affect adults using the confluence area during the winter in-water work window. Equipment and work windows were specifically meant to avoid as many fish as Appendix F of the DMMP/ES states that dredging operations are likely to adversely affect oossible. However, the Corps realizes that some fish may be negatively affected.

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Comment 19

Some potential to entrain these fish exists during dredging operations.

during the summer as subyearlings (Tiffan et al, 2001). According to Williams and Bjorm 1998, 'all chinook typically have an ocean type rearing life history and typically outmigrate seaward overwintered and migrated seaward as yearlings in spring was small and did not effect survival "A small proportion of hatchery and natural subyearling fall chinook salmon residualized and estimates." This indicates that only a small proportion of fall chinook may over winter every migrated early in spring 1997; however, as with fish released in 1995, the number that

affect and are ilkely to adversely affect juvenile fall chinook salmon (See Appendix F). By using ewest fish would be present in the dredging areas, the Corps is attempting to minimize impacts the equipment identified in the DMMP/EIS and conducting dredging during periods when the operations. Thus the Corps' finding in the Biological Assessment that proposed activities may The Corps agrees that some overwintering fall chinook may be impacted by the dredging

Final DMMP/EIS

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as much as possible.

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Comment 20

Careful monitoring during dredge operations, including examination of dredge materials, will be necessary to ensure that lanprey amocetes or other juvenile fishare not entrained.

The Corps intends to have a biologist on site at the beginning and possibly periodically through the dredging operations are impacting juvenile salmonids and lamprey(See DMMP/EIS Biological Assessment for Anadromous Fish Species).

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Comment 21

The DMMP/EIS provides a fairly detailed analysis of white sturgeon data from Lower Granite, but doesn't cover any potential direct impacts to sturgeon while conducting dredge operations during the winter.

benefits to white sturgeon in that the macroinvertebrates that were redistributed in the lower river served as a food source for these fish, and sturgeon abundance in these locations increased during was to avoid "wasting" dredged material (i.e., deep water or upland disposal) when other options, found with deep water disposal, and other options exist for beneficial use or placement of dredged materials. See section 2.2.4.1 of the DMMP/EIS. The DMMP/EIS alternatives would be removing primarily the top 3-5 feet of sediment from the navigation channel, and would not include significant dredging to the original river channel. Bennett et. al. (1995) noted that deep water disposal of dredged material actually had temporary Sturgeon were noted as potentially benefiting from dredging down to the original river channel. the disposal periods. EPA's guidance to the Corps with respect to managing dredged materials such as habitat creation or other beneficial uses, were available. No long-term benefits were

The equipment that is planned for use during most dredging operations (i.e., clamshell dredge) addition, areas where the highest concentrations of sturgeon are known to occur would not be would result in minimal entrainment of all mobile aquatic organisms, including sturgeon. In lredged.

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Comment 22

smolt travel time, survival, crowding, and disease exposure of listed fish stocks within each of the Corps dredge program and DMMP for the next 20 years of the project. The programmatic EIS should more thoroughly evaluate the change in velocity, temperature, restingsfeeding habitat, migration and survival as it may be affected by the operation and maintenance efforts of the We recommend the DMMP fully assess lower Snake River juvenile salmon and steelhead ilternatives of the EIS.

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

Response

The DMMP/EIS evaluates the environmental effects, including the effects on ESA-listed fish species, of the dredging and dredged material management alternatives. This evaluation considered the findings regarding juvenile salmon and steellead migration that were presented in the Lower Snake River Juvenie Salmon Migration Feasibility Study Final EIS. Further, NMFS' Biological Opinion (2000) for the proposed dredging and dredged material management program found that it would not jeopardize listed fish species.

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Comment 23

Modifying the levees does not appear to fit within the DMMP project purpose. Project modification of increasing levee heights will allow the reservoir to pass the SPF but may also contribute to declining pool and water quality conditions and, thus, increase potential threats to recovering listed fish stocks.

Resnonse

Alternatives that consider levee modifications were included in the DMMP as a means to address flow conveyance while maintaining the designed level of flood protection for the Lewiston/Clarkston area. Raising the levees represents an alternative to increased dreging to provide flow conveyance. The proposed lever arise would not affect normal pool elevation, and is not expected to affect water quality or pose additional threats to recovering listed fish stocks.

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Comment 24

We also request the DMMP be included and assessed within the context of the Lower Snake River Invenile Salmon Migration Feasibility Report/EIS.

Retnonse

To the extent applicable, the DMMP and Lower Snake River Juvenile Salmon Migration Feasibility Study/EIS were integrated with respect to purpose and subject matter. Section 1.6 of the DMMP/EIS explains the inter-relationship between these two planning efforts and documents. The Section 404(bX1) evaluation for the Feasibility Study references the DMMP documentation as the location of the Corps' analysis of the effects of dredging and dredged material management on salmonids.

Also see response to Save Our Wild Salmon comment 37.

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Comment 25

We recommend the DMMP/EIS include a more fully developed range of alternatives that provides enhancement of migrating anadromous fish.

Response

The DMMP/EIS examines a broad range of alternatives that are responsive to the stated purpose and need, which is focused on maintenance of the existing navigation channel and flow

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

conveyance capacity of the lower Snake River and McNary Reservoirs. The purpose of the DMMP is not to enhance fish habitat. However the issue of providing enhancements for migrating anadromous fishes was a very important consideration in the development of alternatives, consideration of existing environmental conditions and potential environmental effects of the alternatives, and development of proposed mitigation measures. Of note is the fact that several alternatives, including the preferred alternative, have as primary features dredged material management strategies that are specifically designed to provide enhancements for anadomous fishes. Further information on the Corps' efforts involving anadromous fish is available at the Walla Walla District's website:

ww.nww.usace.amny.mil/planning/ep/fishres/main.html

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Comment 26

The estimated cost of the dredging project is at least \$3 cubic yard for inwater disposal of dredged material. Costs would go up an estimated 34 times for disposal of dredged material in update diseases that the final EIS improve its cost-benefitanalysis of the dredge program. Because the pod is maintained by the Lower formite project, each alternative, including the natural river alternative, should be economically assessed using local tax costs that support the water-ways/ports, operation and maintenance for navigation, salmon migration, and occasional federal costs like lock repair. We recommend this analysis include the level and potential impacts of dredging required to catch up with shortfalls in the existing dredge program, potential mingation for declining pool conditions because of sedimentation, and fish and wildlife benefit costs and risks.

Respons

The purpose of the DMMP/EIS is to evaluate ways to maintain the authorized navigation channel in the lower Snake River and McNany Reservoirs and accommodate flow conveyance over the next 20 years. Navigation is a specific aspect of the stated purpose and need. True "natural river conditions" would not allow mavigation and, therefore, are not consistent with the DMMP's purpose and need. Response to Save Our Wild Salmon comment 29 presents an analysis of the benefits and costs of the proposed system management, consistent with the stated purpose and

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Comment 27

The dredge program has been identifed as benefiting chinook salmon by providing critical shallow water habitats free from potential predators. While we believe some of these benefits are real, we ask that the EIS assess the availability of similar habitats under a natural river and without dredging the Lower Granite pool.

Response

The purpose and need of the DMMP/EIS is to evaluate dredging and dredged disposal management alternatives to maintain the navigation channel and flow conveyance in the lower Snake River and McNary Reservoirs. As such, creation of shallow-water habitat as a beneficial use of dredged material was evaluated. Evaluation of shallow-water habitat under a natural river scenario would not fulfill the stated purpose and need of the plan.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Organization Idaho Department of Fish & Game, Clearwater Region Comment 28
We request that the Idaho Department of Fish and Game be included on the Regional Dredging Team identified in the DMMP/EIS. Response Idaho Department of Fish and Game is included as a participant in the Local Sediment Management Group (formerly called the Regional Dredging Team) (see Section 1.8).

O-27

U.S. Army Coips of Engineers Walla Walla District



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Douglas A. Hancey

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for (106) 314-3741 ME 1-800-377-3529 (308) 334-41 PP

\$657 warm springs arount Street and was

December 12, 2001

Department of the Army Walls Walls District, Corps of Engineers 201 North Third Avenue Walls Walls, WA 99362-1876 Richard P. Wapenax

Dear Lieutenant Colonel Wagenaur:

Rickard J. Calignan draces

Bill Dokken Spury dragar

ATTN: Dredged Material Management Plan

The Idaho Department of Paris and Recneation would like to comment on the Draft Executive Summary for the above referenced plan and specifically on the dredging impacts at Hels Gate States.

The Corps' preferred alternative, Alternative 4, involves no significant change to the very the marina and the Shake River Anned in front of the marine is currently dracked and managed. None of the proposed alternatives would negatively affect recreation at Helis Gate Spate Park.

It is our experience that on occasion the main river channel is dredged in front of the mains. We have dredged the mouth of the mains on an arrust basis prior to redesigning the entrance. Since the redesign, we have not had to dredge in two years. We also have a need to dredge the actual marina when the sediment gets too deep for the boats to maneuver, and that occurs every several years. The current system of dredging is working adequately and enabling Hells Gate State Park to continue to provide near related recreational opportunities.

Thank you fugithe opportunity to

John Crowe, Development Bureau Chief Mike McEltatton, Park Manager, Helis Gate State Park Rick Cummins, North Region Manager

Organization
Idaho State Parks and Recreation, Director
Comment 1
None of the proposed diernatives would negatively affect recreation at Hells Gate State Park.
Response
Your comment is noted.

O-29



DEPARTMENT OF ECOLOGY

P.O. Bar 47600 - Olympis, Washington 18546-7680 (360) 407-6000 - TDD Only Hearing Impaired (360) 407-6006

January 3, 2002

Dept of the Army
Walls Walls Dierrict
Corps of Engineers
ATTN: Dredgod Material Management Plan
20) North Third Avenue
Walls Walls WA 99362-1876

Dear Sire:

Thank you for the opportunity to comment on the draft environmental impact statement for the Dredged Maiorial Management Plan (DMMPRIS). We have reviewed the DMMPRIS and have the following comment.

Upland placement of dred god materials will require a solid waste permit unless the materials meet the definition of "clean dredge spoils" under the applicable solid waste rule in effect at the time of placement. The current rule is Chapter 173-304 WAC. This is currently being amended and will change to Chapter 173-350 WAC.

If you have any questions, please contact Mr. Wayne Krafft with our Solid Waste and Financial Assistance Program at (509) 456-2995.

Sincerely,

Reference J. Luner.
Respects J. Jumen
Environmental Coordination Section

EIS #01738\$

cc: Wayne Krafft, ERO Heidi Scheibner, ERO

Organization
Sate of Washington Dept. of Ecology, Environmental Coordination Section
Comment 1

Upland placement of dredged materials will require a solid waste permitunless the materials meet the definition of "clean dredge spoils" under the applicable solid waste rule in effect at the time of placement.

Response

The Corps will assess the quality of dredged materials per the methods of the dredged materials evaluation framework. The Corps will comply will all applicable state and federal regulations regarding placement of the dredged materials if they do not meet "clean dredged spoils" definition.

U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

P.O. Box 47680 • Olympia, Nashington 98504-7600 (360) 407-6400 • TDD Only Hearing Impaired) (360) 407-6406

January 22, 2002

ATTN: Dredged Material Management Plan Walla Walla District, Corps of Engineers 201 North Third Ave. Walla Walla, WA 99362-1876 Department of the Arrny

Dear Sirs:

your WEB site in order to review all the Plan documents. In general, we believe the District has done an excellent job in developing and evaluating a 20-year Dredged Material Management Plan for the Snake and Mid-Columbia Rivers. Please excuse the lateness of our comments; for a considerable time we could not connect with

confingency in a worst case situation. As an example, a worst case intuition could arise from the detelging of the confluence where the greatest volume of sediment is dredged on a requent basis. We can envision a situation whereby the sediment proposed for dredging does not qualify for beneficial use because of an unexpected result of sediment chemistry or bioassays for possibly a disagreement about what constitutes acceptable sediment chemistry or bioassays for possibly a same time, if a serious monetary deficit occurred in the CorpyDistricts O&M Fordam, there may not be sufficient funds to pay for a higher-cost upland disposal option. Given his scenario, the only feasible contingency would seem to place the dredged material at a deep water site, as provided for in the No Change Alternative. We view this secnario as unlikely, but given that the dredged material plan covers a lengthy period of 20 years, we believe it makes sense to retain all Recommended Plan/Preferred Alternative is the most desirable from the perspective of using dredged material beneficially. However, we are concerned that the Plan does not provide for a Specific Comment - Recommended Plan/Preferred Alternative: We concur that the reasonable and prudent disposal options.

Tell about for Bordon white

Gordon White

Program Manager

0

Organization

Washington Department of Ecology Comment 1

As an example, a worst case situation could arise from the dredging of the confluence where the greatest volume of sedimen is dredged on a frequent basis. We can envision a situation whereby the sediment proposed for dredging does not qualify for beneficial use because of an unexpected result of the sediment chemistry or bioassays (or possibly a disagreement about what constitutes acceptable sediment quality for a beneficial use). At the same time, if a serious monetary deficit W)e are concerned that the Plan does not provide for a contingency in the worst case situation. occurred in the Corps/District O&M Program, there may not be sufficient finds to pay for a higher-cost upland disposal option. Given this scenario, the only feasible contingency would seem to place the dredged materialat a deep water site, as provided for in the No Change Alternative.

Response

also be used if dredging occurred in summer months, within the allowable parameters documented in the DMMP/EIS. The Corps' budgeting for dredged material management would be based on the conditions presented in the DMMP and would, therefore, involve commitments to manage dredged materials that are not suitable for heneficial uses consistent with the provisions of the DMMP. Ultimately, if dredged materials require upland disposal, the Corps would fund upland disposal, consistent with the DMMP. Based upon review of sediment quality data and plans to regularly evaluate sediments throughout place dredged materials upland if they are unsuitable for beneficial use. Upland disposal would the term of the DMMP, the Corps believes the likelihood of encountering sediments that are unsuitable for beneficial uses in very low. Nonetheless, the DMMP provides the flexibility to

U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002



State of Washington DEPARTMENT OF FISH AND WILDLIFE 2009 West Community, Build (18, Kernanda, Westergen 19519 - (1609) 724-7422

Sourcey 4, 2002

S. Army Corps of Engineers

Attn: Dredged Material Managoment PlanMer. Jack Sands 20) North Third Avenue

Walla Walle, Washington 99362-1876

Dear Mr. Sands

Comments for U. S. Army Corps of Engineer Draft Esvironmental Impact Statement for the Drugged Material Mangement Plan for Makiry Reservoir and Lower Snaka Efrer Reservoirs. SUBJECT

The Wathington Department of Figh & Wildlife (WDFW) appreciates the opportunity to provide comments on the draft Environmental Impact Statement (EIB) for Dredge Material Management Plan (DMMF) in the Soake River and MerNary Pool in the Columbia River. Our prinary focus for comments is directed at fath impacts. The need to preserve, protect, and perpetuate anadromous fish, especially federal listed Threstened and Endangered Species (T & E) under the Endangered species Act (BSA) is imperative.

naturial mempement along with finh management concepts change, mostly for the better. It's important to make the right management decisions the first time, unless the document is adopted with legal adaptive ongoing elements that allow the decision makers to utilize the least inst most useful science. It could become a working document. Creeting a EUS that is the basis for making decisions for up to 72 years in the fawer is difficult. WIPFW cautions the COE when adopting WDFW reviewed the dredging material metagement alternatives carefully. We participled in a number of fortuns through the years to advise the U.S. Army Corps of Engineers (COE) from a State of Weaklagton perspective on dredging activities. Recent science demonstrates boy deedge diseign and dredge material management policies from this EIS DAMP that spoly long term

During previous dredge material management discusions, WDFW suggested alternatives that we believe are feasible, reasonable, and should be considered in defail: The flow management option of flucking Lower Granite pool whenever necessary to naturally move sediment rather than ideoge.

The draft EIS DARAP explains how effective the free-flowing reach carries suspended material. Why not increase flows to simulate natural river conditions and naturally move suppended material?

COE Draft EIS Dredge Material Managiment Plan

Inaunry 4, 2002

2 cont.

dary down alternative is not extensively addressed in the DMMP, so comparison is difficult. Is the daft EIS DMMP daw down alternative based on data from the 1992 daw down of Lower Grante pool? Keep in mind, the 1992 Saaks River flow was an extremaly low flow year and may not represent the type of flushing we're suggesting. An annual flushing event of Lower Grante pool should prevent sediment deposition. Flushing would also remove some existing deposits. It creates The draw down alternative in the DMIMP is not the same as a flushing event. Additionally, the the type of river condition that simulates a intural ligh flow event.

juvenile salmonid out migration. Under flood conditions juvenile salmonids utilize high turbidity to savid predators. We know that the existing iow flow trearwoirs are a haven for predatory species. The increased valocity helps juvenile salmonids orient naturally and they leave the impounded areas somer. Increased flows over said around the dem decreases mortality. The increased flow in the Lower Grazile pool would provide a flow of water that is beneficial to salmonids throughout all the impounded waters of the lower Sanke and Columbia River. libers are memorous benefits to ESA liead fish species if flushing is conducted in concert with peak

A flushing event can be limited to a short period of time when the natural high rate of sediment suspension and/or deposition occurs. Another option would be to pulse flushing events, (i.e., twice a year) that equals one large flushing event. The Lower Gratic pool draw down could be limited to whatever level or period is necessary to move the sediment down river. In the draft BIS DMDAP, the COR doesn't thoroughly address the draw down alternative. The 1952 draw down scenerio (i.e., gratier than 60 feet draw down) is probably not necessary. It may only require a 10 to 15 feet draw lown to move the sediment. The appropriate level and method of draw down needs to be

Most of the sadiment would settle out in the deep water areas of the pool, which abready has the supercity to hold another 120 million cubic yards of sodimens. The draft ElS notes that 3.2 million cubic yards of sediment are deposited in the Lower Granie pool every year, and assuming less than full deposition under flushing conditions, that still provides 40 more years of natural conditions uring out migration. That's also 40 years of cost savings because of limited dredging.

ononic impacts on commerce are important. Buge traffic would be impacted during this period. Although, the heaviest barge traffic is during or after agricultural harvests. The high flow period conducive to a flushing event is before harvest, typically during the month of May. Flushing is an pliemative that may limit deadging needs in the Lower Granite pool, which would offset the conomic impacts on come

The draft EIS DMMP states that above 300,000 cft, the COE predicts that elevation 738 cannot be maintained in the Lewiston area. The draft EIS notes though that at least not; 2020 the levee system will protect Lewiston during a 100-year flood event. If the COE manages the Clearwaner

Best Available Copy

COE Braft E1S Bredge Material Management Plan Japuney 4, 2002 Page 1

2 cont | Riv

River and Snake River confibence alsoution by Bushing they could extend the life of the current leves system.

WDFW would like the COE to evaluate the flushing alternative more extensively. We don't believe the draft EIS DMMP adequately addresses this as an alternative. Under the evaluation criteria for the draft EIS DMMP attending event would !) lower drodging costs, 2) simulate natural river conditions, 3) be beneficial to juvenile salmonids, and 4) maintain flow conveyques of the Lower charities reservoir.

Other general comments on the draft EIS DECEMP.

Beneficial uses of dredge material. WDFW supports the concept of bracticial uses for the dredge material. The creations of shoreline or island habitat and covering rip rap shorelines followed by covegatation, as all good ideas. We're concerned that the preferred alternative selected by the COSE, creates an underwater habitat that is not within the critical aons for juvenile submonds, especially fall Chinote. It appears that because of logistica, the dredge material would be dimped only in depths greater than 10 feet. As Dr. Leve Bennett and colleagues from the University of ideas point out, 10 to 20 feet depths are important, but the closer to show, (i.e., zero to 10 feet depths are important, but the closer to show, (i.e., zero to 10 feet depths are important, but the closer to thore, (i.e., zero to 10 feet depths are important, but the closer to thore, (i.e., zero to 10 feet depths are important, but the closer to show, (i.e., zero to 10 feet depths that is prefetted by inventile satmonidis. How was the abore in created at Centennial island?

Another beneficial use of decige material WDFW recommends is to support cover its map abangling stats. As we discussed in the last regional decige team advisory meeting, radies the COE takes the first step in capping rip rep areas, it is unlikely mitmed companies or other junisdictions will. There are plenty of groins and dices along the Snakes and Colembias Rivers that would loss very few functions if covered with dredge material and revegatated with woody vegetation. Structural integrity isn't threatened. Choices where views use not impected are possible. Minimal maintenance by Park officials would promote woody plants that do not pipe through the structure. During a major flood event the vegetation acts to distipate flood energy and prevent envision. The vegetation also provides juvenile salmonids refluge for foeding and rewring during high flow events.

Large Woody Debris - Managing large woody debris (LWD) within reservoirs is another issue that WDFW feels is neederted. It's linked to the deaf Elis DMMP when beneficial types of dredge matastates are considered. If flushing is willight as a management tool there will probably be LWD impacts in the Lower Granite forcher. WDFW profers to kernet WDFW in the river system, but if removal is necessary it should be used for the benefit of flush if shootine restoration or sovering rip rap stress are used as beneficial tests of the dgs material, why not incorporate LWD to increase habitate complexity resulting in increased benefits to juvenile satmonists?

*

COL Denft RIS Dredge Material Management Plan January 4, 2002 Page 4 Levess - In general, WDFW opposes further leves construction, especially when there are alternatives that are more environmentally sound. Levess prevent naturally occurring flood plain functions, many of which are beneficial to Sth. If levess are necessary, WDFW prefers settack for the flood plain to function properly. Additionally, the CDE and most local jurisdictions that lease the leves areast don't practice sound vegetation menagement along the aboveline. The lesses and the COE vegetation removal policy and maintenance practice is in conflict with the restoration properly environ policy and insultantine practice is in conflict with the restoration policy does not ruly on acheoic developed for the Stake River or Columbia River leves systems. They use Maistaispip River soices. It doesn't apply to our easten Wachington river systems. Northwest research exists and it contradicts the Missialpip River study, Identify the differences and communicate with the jurisdictions of responsibility, so that shoreine and vegetation restoration and vegetation restoration and vegetation restoration along the leves is not just short term and the peneficial uses are not similar with the missing the first study.

The draft EIS DAIMP states that the Lower Grazite pool has the capacity to extend the life of the Lewiston levee until 2020. Why is there a proposal to start construction in 2005? If mecessary, we suggest the COE adopt an adaptive management approach to building this levee. Either conduct a more linedy EIS (say in 2015), or wait for bother scientific methods to evaluate impacts.

Eydraulic Dradging. With regards to hydraulic dredging. WDFW is reluctant to agree to this meltod of dredging. As proposed in the dank E13 DAMAP, small-scale hydraulic dredging may be appropriate if reviewed on a case by-case basia. WDFW would request mentioding of each hydraulic project for investle fish mortality. Federal and state listed apocies should be the primary concern, although other species should be monifered also. If monifering results descontants no metallity mustate on investle submonide then further use of the hydraulic method might be considered.

Sediment trape - WDFW agrees that is not a viable alternative.

In-Water Work windows - Work windows identified for the Snake River are similar to the State of Wathington. Work windows identified for the Columbia River conflict during the month of March.

Recent research indicates juvenile fall Chinook emergence is well underway by March I within the McNury pool. With a few minor exceptions, and because of flat impacts. WDFW doesn't suitivities any in-water projects beyond March I within the McNary Pool. WDFW remains flexible during, low flow periods of the number. A minor work window exists for August, but projects have been permitted from mid July to mid September depending on in-scason variables and flat impacts.

Local Sediment Management Group (LSMG) - This is a good iden if the LSMG is well informed to the littledictions provide regular input, and the advice from the group is followed.

COE Draft EIS Dredge Material Management Plan January 4, 2002 Page 5 Washington State Hydraniks Code (RCW 77.55.160) · WLFW requires a Hydralic Project Approval (HPA) permit for any work conducted in waters of the State of Washington. Any directing related activity, including beneficial were, and levee construction, requires a HPA permit cities for the COE or the constructor conducting the work.

Thank you for the apportunity to provide this information. WDFW intends to cominns participation in the LEMG. We'll provide the technical support to the LEMG on incurs and projects that address both short and long term fith and wildlife management opions. Hopefully, the final FIS Dange will be at complete as possible in assessing the needs and benefits for the fish and wildlife associated with diredge activities in the Snake and Columbia River. WDFW appreciates the COE efforts regarding this project. If you have any questions, please call me at 509 734-7432.

Sincerniv

Faul E. Jaffrier Paul E. Lakiviere Ares Habitat Biologist Intropol@dfw.wa.gov oc: Graudstadf, WDFW, Region 1
Robinetts, WDFW, Region 1
Mather, Ecology, Spokane
Gulfer, NMFS, Ellentburg
Volkman, CTLUR
Memdel, WDFW, Region 1
Buxke, WDFW, Region 6
Hatteen, Idako Fish & Game, Lowiston
Erkel, COE, Spokane

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

WDFW cautions the COE when adopting dredge and dredge material management policies from this EIS DMMP that apply long term. Comment 1

Response

Your comment is noted.

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 2

believe the draft EIS DMMP adequately addresses this alternative. The draftEIS DMMP explains alternative is not extensively addressed in the DMMP, so comparison is difficult. The expropriate how effectively the free-flowing reach carries suspended material. Why not increase flows to economic, ecobgical, and logistical benefits that could accrue from each of these additional level and method of draw down needs to be detemined and explained. There are numerous VDFW would like the COE to evaluate the flushing alternative more extensively. We don't simulate natural river conditions and naturally move suspended material? The draw down alternative in the DMMP is not the same as a flushing event. Additionally, the draw down alternatives, and as such both should be treated in the DMMP/EIS.

Response

outmigration has some potential. One of the major drawbacks of drawing the reservoir down to passage system at Lower Granite Dam as unusable. There are two alternatives for fish passage that degree during the fish outnigration period would be the rendering of the juvenile fish The drawdown of the reservoir of 10 to 15 feet during the annual flood season and smolt without the juvenile bypass systems, turbines and the spillway.

costs for the 20-year course of action. Another alternative would be to periodically dip gatewells (Swan et al. 1994), up to 18 would need to be constructed at a cost that may exceed the dredging and put fish in trucks for transporting downstream. Gatewell residence time, however, also plays factor in that depending on the gatewell environment, conditions for fish can be detrimental if eventually die there. Although a lift tank was tested in 1994 for removal of fish from gatewells turbine, with possibly higher than desired mortality rates. In addition, a large number of fish For turbine passage, the traveling screens could be pulled, and fish would pass through the would be trapped in the gatewells with no opportunity for exit, and a great number could fish spend too long in there.

predators. Only a few minutes of migration delay were seen in the Ice Harbor Dam tailrace (Eppard et al, 1999) for fish spilled during high and 100% spill scenario. However, some fish that spill on, versus spill off without regard to powerhouse operations). If an eddy is set up, it has the powerhouse operation, a large eddy would be set up in the tailrace of the dam. A predator study Lower Granite Dam tended to seek out the lower velocity areas (although this study mentioned potential to continually cycle juvenile fish within the eddy and constantly expose them to more (Bjornn and Piaskowski 1999) showed that during spill operations, predators in the tailrace of passed during these scenarios did experience longer tailrace residence times (Eppard -NMFS-If an all-spillway route were determined to be the most appropriate passage route, with no Personal Communication, 2002).

in addition, spawning migrations of fish into Alpowa Creek may be blocked by drawdown

Final DMMP/EIS

U.S. Army Corps of Engineers

Response to Comments

operations. Rearing areas important to fall chinook and sturgeon would be rendered less usable if Irawdown occurred. Invertebrates that use the Port of Wilnra, Centennial Island and other known invertebrate species would be negatively affected, other species that prey on them including white primarily crayfish to a diet composed of more juvenile salmonids. This was due primarily to the rearing in the area either during drawdown or after water up. Bennett (1995) demonstrated that sturgeon, channel catfish and other predatory species all have the potential to change predation largets and negatively affect salmonid smolts. Disruption of the food web on a repetitive basis shallow water rearing areas would be desiccated and would provide little to no benefit to fish after the drawdown event, small mouth bass changed their predation targets, from preying on would cause overall detrimental effects to the limnological characteristics of the reservoir. reduction in the number of invertebrate species caused by the drawdown. Because these

Snake River Juvenile Salmon Migration Feasibility Study: Interim Status Report, December 1996 For further details on seasonal drawdowns, see the System Configuration Study, Phase II, Lower (incorporated by reference). Also see response to Idaho Department of Fish and Game comment

Organization

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist Comment 3

tabitat that is not within the critical zone for juvenile salmonids, especially fall chinook. WDFW recommends that the COE address the zero to 10-foot depth zones in order to reatablish proper We're concerned that the preferred alternative selected by the COE, creates an underwater unctioning near-shore habitat that is preferred by juvenile salmonids.

therefore, conductive for productivity of plankton and invertebrates, and feeding for fall chinook. The 10-foot depth was chosen for two reasons. The first reason was the cost and logistics of depositing the material. The second reason was that this depth is within the photic zone and is, A shallower depth is possible but would also be more expensive.

River Compensation Plan. It is possible to use dredged material to create shallow water areas or however, is that the Corps must plan dredged material disposal in areas where cultural resources nparian area, specifically the Woody Riparian Habitat Project, a component of the Lower Snake problems further downstream. Although the riprap habitat produces invertebrates for fish to eat, create. In addition, railroad berms and levies are often quite steep and may not be conducive to cover riprap in conjunction with the Woody Riparian Habitat Project. One of the major issues, Other programs in the Walla Walla District are currently addressing the issue of trees in the will not be impacted. This may limit the amount and the continuity of habitat the Corps can holding sediment in place, also losing the continuity of habitat and creating sedimentation he variation of habitat versus a single type of habitat could be a benefit.

Organization

Comment 4

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Another beneficial use of dredge material WDFW recommends is to cap or cover rip-rap shoreline areas.

Response

Final DMMP/EIS July 2002

J.S. Army Corps of Engineers Walla Walla District

material and plantings remain over the rip-rap. In addition, rip-rapped slopes are often quite steep It is possible to use dredged material to create shallow water areas or cover as a beneficial use of and may not be conducive to holding sediment in place, which in turn could lead to the loss of must be planned in areas where cultural resources and threatened and endangered fish species dredged material. One criteria used for selecting areas for beneficial uses of dredged material considerations would need to be carefully evaluated in beneficial use of dredged material that Corps can create. In general, the stability of dredged material placed on shoreline areas is a concern as water velocities along rip-rapped shoreline may be too great to ensure dredged would not be adversely affected. This may limit the amount and the continuity of habitat the continuity of habitat and/or creating sedimentation problems further downstream. These may include covering rip-rap on shoreline areas.

Although the riprap habitat produces invertebrates for fish to eat, the variation of habitat versus a single type of habitat could be a benefit. The Local Sediment Management Group provides a forum for identifying opportunities and local sponsors for potential placement of dredged materials over riprap to create viable shoreline habitat.

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 5

materials are considered. If flushing is utilized as a management tool there will probably be LND impacts in the Lower Granite forebay. WDFW prefers to leave LWD in the river system, but if Large Woody Debris - Managing large woody debris (LWD) within reservoirs is another issue that WDFW feels is neglected. It's linked to he draft EIS DAMMP when beneficial uses of dreage removal is necessary it should be used for the benefit of fish.

riparian area, specifically the Woody Riparian Habitat Project, a component of the Lower Snake River Fish and Wildlife Compensation Plan. It is possible to use dredged traterial to create shallow water areas or cover riprap in conjunction with the Woody Ripanan Habitat Project (see Other programs in the Walla Walla District are currently addressing the issue of trees in the response to Comment 4).

flow. In the reservoir system, even at high flows, the water velocities in most of the areas are not fast enough to accrete anything more than fine material behind the logiam or LWD. There are no specific plans to introduce LWD in association with the Woody Riparian Habitat Program. form of engineered logiams. Some of the functions of these logiams include restoring habitat by However, with the Woody Riparian Habitat Project, LWD may eventually begin accruing along Large woody debris (LWD) is often used in stream habitat restoration plans, many times in the banks and reduce erosion. One of the key components required for LWD to work is sufficient creating cover and by attempting to accrete sedimentary materials and, thus, help to stabilize the shoreline.

structure-oriented piscivores (including smallmouth bass and bass crappie which prey on juvenile In addition, the use of LWD in a warm water system versus a coldwater system may result in the (1995) demonstrated at Centennial Island that the riprap on the riverside of the island tended to replacement of salmonid habitats with introduced species, namely predators. Bennett et. al. concentrate more predators than the sand areas. Caution should be given to the addition of structures into the system which may have the potential to increase introduced species of salmonids) to accumulate in these areas and create concentrations of predators along the

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Appendix O
Response to Comments

shorelines, thus being detrimental to salmonid populations.

Organization

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 6

In general, WDFW opposes further levee construction, especially when there are alternatives that many of which are beneficial to fish. If levees are necessary, WDFW prefers setback levees that Lewest prevent naturally occurringslood plain functions, enable the flood plain to function properly. are more environmentally sound.

land uses, it is not practical to move those or new levees back. If those levees were to be setback, No new levees or linear expansion of existing levee systems are proposed as part of the DMMP. The existing Lewiston levees are an essential part of Lower Granite Project. Given surrounding the change in flood plain area would be so small that there would be no measurable change in

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 7

vegetation management along the shoreline. The lessee and the COE vegetation removal policy and maintenance practice is inconflict with the restoration projects proposed under the beneficial use proposats in the draft EIS DMMP. Existing COE policy does not rdy on science developed for the Snake River or Columbia River levæ systems. The COE and most local jurisdictions that lease the lewe areas don't practice sound

Some planting in shoreline areas would be possible as part of the beneficial uses considered in the DMMP. In general, the Walla Walla District manages regetation on levees within its jurisdiction maintenance and beneficial use of dredged material are not the same programs. Some vegetation removal from levee faces is necessary. Vegetation growing on benches off the base of the levee is not targeted for removal. Dredged material can be used to extend existing benches or create Proposed planting benches at the toe of the lovee would not conflict with the Corps' vegetation removal policy. Trees and strubs would be planted no closer than five feet from the levee toe. in an environmentally sound manner consistent with the project purposes. In addition, levee new benches that could support riparian vegetation.

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 8

conduct a more timely EIS (say in 2015), or wait for better scientific methods to evaluate impacts. We suggest the COE adopt an adaptive management approach to building this levee. Either

These analyses indicate that The Corps proposes to employ an adaptive management approach to the implementation of DMMP. With respect to the proposed levee modification, however, the Corps has conducted economic (benefit/cost) analyses of the flow conveyance measures. These analyses indicate the the greatest benefits (in terms of avoided damages) would be realized if the levee raise were

Final DMMP/EIS July 2002

Valla Walla District U.S. Army Corps of Engineers

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 9

proposed in the draft EIS DMMP, small-scale hydraulic dredging may be appropriate if reviewed on a case by case basis. WDFW would request monitering of each hydraulic project for juvenile With regards to hydraulic dredging, WDFW is reluctant to agree to this method of dredging. As fish mortality. Federal and state listed species should be the primary concern, athough other species should be mortality impact on juvenile salmonids then further use of the hydraulic method might be considered

Response

hydraulic dredging, if employed, would be performed. See Appendix M (Monitoring Program). specific instances (see Section 2.8.1 of the DMMPPEIS). Any hydraulic dredging would be undertaken within the conditions of NMFS' Biological Opinion. Biological monitoring of the As proposed under the DMMP, hydraulic dredging would be employed in very limited and

Organization

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 10

Work windows identified for the Columbia River conflict during the month of March. Recent research indicates juvenile fall chinook emergence is well underway by March I within the McNary Pool. With a few minor exceptions, and because of fish impacis, WDFW doesn't authorize any in-water projects beyond March 1 within the McNary Pool. WDFW remains slexible during low slow periods of the summer.

Pond. Although the Corps can attempt to avoid working in March, the negotiated agreement for in-water work windows was established with NMFS. The US Army Corps of Engineers - Seattle Regulatory, and the US Fish and Wildlife Service (Special Public Notice, Final Regional Conditions, 401 Water Quality Certification Conditions, Coastal Zone Management Consistency McNary Pool all have the potential for salmon rearing, based on Easterbrooks studies in Casey Responses, for Nationwide Permits for the Seattle District Corps of Engineers for the State of McNary Pool. The Corps does recognize, however, that the areas considered for dredging in The Corps is not aware of any information of eggs of fall chinook salmon incubating in the Washington, 16 June 2000).

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 11

LSMG - This is a good idea if the LSMG is well informed, local jurisdictions provide regular input, and the advice from the group is followed.

Response

The Corps intends to keep the LSMG informed and the consider recommendations from the group when making decisions about dredging and sediment management.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Response to Comments

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 12

VDFW requires a Hydraulic Project Approval (HPA) permit for any work conducted in waters of construction, requires a HPA permit either for the CDE or the contractor conducting the work. the State of Washington. Any dredging related activity, including beneficial uses, and levee

The Corps will consider WDFW comments on all dredging related activities, however, the Corps permit for work on Corps' projects. The Corps does, however, comply with all applicable state aws and regulations. As part of the pre-contract environmental compliance review, the Corps disagrees that the Corps or Corps' contractors are required to obtain a Washington State HPA will coordinate with regulatory agencies, including WDFW.

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineer.



Weshington State
Department of Transportation
Pauges 8. Macbonial
Sectory of Transportation

Bauth Castral Rogism 2008 Audin Ross, Union Ca P.O. Box 12500 Yalima, WA 36500-2263 506-877-5500 TTY: 54500 www.instol. Will gov

January 7, 2002

Department of the Army Walla Walla District Corps of Engineers Attention: Dredged Material Management Study 201 North Third Avenue Walla Walla, Washington 99362-1876

Attention: Jack Sands

Subject: U.S. Army Corps of Engineers, Walls Walls District Dredged Muterial Management Plan SR 129 On November 13, 2000, we commented on the Environmental Assessment (October, 2000) for the Curps' Interim Lower Snake, Clearwster, and Mid-Columbia Rivers Drodging. Part of the Environmental Assessment proposes direigning at the confluence of the Snake and Clearwster Rivers in the Lewiston, Idaho/Clarkston, Washington area, but made no mention of the possibility of raising the profile of State Highway 129, or any other direct impacts to the state highway system. Recently, we discovered that Alermatives 2, 3, and 4 of a proposed direigning plan by the Corps would involve raising SR 129. This was not part of the October 2009 perposal. Since our November 13, 2000 letter, we have not received may notice from the Corps of any changes to the proposal. We would like to offer the following general comments at this time.

- Alternatives 2, 3, and 4 would significantly impact the state highway system by
 Esting SR 129. Raising SR 129 would cause a number of short-term impacts during
 construction. Traffic would have to be re-routed during construction, and all the
 existing interactions and divoway approaches would need to be modified (or
 possibly reviewed for elimination). The proponent will be responsible for all costs
 associated with raising SR 129.
- Any proposed use of dredged material for a roadway base for any state historiays. would need to be reviewed and approved by WSDOT.
- As stated in our previous fetter, We prefer any directed material that can be transported by the inland water way system to utilize that means without using and impacting the state highway system.

Mr. Jack, Sands, US Army Corps of Engineers – SR 129 & Clarkston Dredging Proposal January 7, 2002 Page 2

If there will be any oversized equipment or overweight material haule on WSDOT-maintained rights-of-way, the applicant must obtain the appropriate permit from WSDOT price to transporting any of these hault. Also, it will be the applicant's responsibility to keep and maintain the state highways, including any interchanges, free of any of their definit or hazardous material. Any spilled material shall be gleaned up at it is applicant's crosses.

WSDOT would libe to work with the U.S. Army Corps of Engineers concerning the specifies of any proposal affecting SR 129, or any other impacts to our state highway sydem. Thank you for the opportunity to review and comment on this proposed project. If you have any questions concerning our comments, please contact me at (509) 577-1630.

Troy A. Suing, P. E.

TAS: rh/jig

File #3, SR 129 Gary Boeman, Environmental Program Manager Bob Mattin, Area 4 Maintenance Superintendent

aning deviews and company, with and play plander

WSDOT South Central Region Comment 1

Alternatives 2, 3, and 4 would significantly impact the state highway system by raising SR 129. Response

intersections and driveway approaches that are described in the comment. The specifics and plans for these roadway activities would be coordinated with WSDOT. The cost of these The raising of SR 129 would require the temporary re-routing and reconnection of existing connections would be a part of the levee raise project cost and be borne by the Corps of Engineers.

Organization

WSDOT South Central Region

Comment 2

Any proposed use of dredged material for a roadway base for any stae highways would need to be reviewed and approved by WSDOT.

Response

proposed roadwork. If the roadway being considered for a dredge material beneficial use were a Washington State highway, federal specifications and WSDOT requirements would need to be The use of dredged material for a roadway base is not being considered for any currently considered when developing plans for constructing such a roadway base.

Organization

WSDOT South Central Region

Comment 3

We prefer any dreaged material that can be transported by the inland waterway system to utilize that means without using and impacting the state highway system.

would require such a truck haul would be coordinated with WSDOT before the plan is finalized Wherever possible, the preferred plan uses barge transport of dredged material. The state highways would only be used when a specific beneficial use of dredged material requires overland transport that cannot be done by any other method than truck haul. Each plan that and construction is initiated.

WSDOT South Central Region

Comment 4

rights-of-way, the applicant must obtain the appropriate permit from WSDOT prior to transporting any of these hauls. Also, it will be the applicant's responsibility to keep and maintain the state highways, including any interchanges, free of any of their debris orhazardous material. If there will be any oversized equipment or overweight material hauls on WSDOT-maintained Any spilled material shall be cleaned up at the applicant's expense. Response

The provisions stated in the comment would be reviewed with WSDOT when a truck haul over state highways is required to support the beneficial use(s) of dredged material. All applicable

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Appendix O
Response to Comments

permits and requirements will be discussed with WSDOT, addressed in the plans and contracts, and permits obtained before the truck haul begins.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District



STATE OF WASHINGTON

WASHINGTON STATE PARKS AND RECREATION COMMISSION 7150 Cheanvaire Lane + P.O. Ber 42619 - Ofenpale, Wentington 98304-2650 - 13409 582-8350
ISBN 1848-per Address: http://www.parla.us.gov
TDD 1848-communications Device for the Death 1340 5454-1333

January 7, 2002

Mr. Jack Sands, Project Manager Walls Walls, WA 98362-1876 U.S. Army Corps of Engineers 201 North 3" Avenue Walls Walls District

Draft Dredged Materiai Managaman i Plan and Environmental Impact Statement – McNary Reserveir and Lawer State River Reservoirs Subject:

Dear Mr. Sands:

I am writing in response to the Druft Drufted Material Management Plan and Environmental Impact Statement for the McNary Reservoir and Lower Soake River Reservoirs (DBES). After reviewing the DBIS State Parts has the following comments.

Recreational Dredgiag

17 of the DELS. However, developing specifications are vague in regards to existing facilities at each respective site. Although the DEES states each alternatives shilly to manipus use of existing recreational facilities, State Parks is unsure whether develong activity at respective parks includes areas accessery to maintain existing recreation.) The U.S. Army Corps of Engineers (Corps) has identified long-term drodging activiti adjacent to state parts located on the Snake and Columbia Rivers on plates 3, 11, 13,

Plate 5, Sacajawea State Park.

with the Columbia River. Dradains of these areas is necessary to maintain recreational use of the Secatawes State Park water access site, area, and the area from the boat basin to confluence it is difficult to accertain whether dredging activity Will include the existing boat basin, bost moorage

Plan 13, Central Ferry State Park: her the Corps considered access to the Central Ferry Sinte Fark Bost Basin? Faris deedged the boat bean area 10 years ago, and believes that finure drodging may be required due to sediment transportation from the creek emptying into the beasin.

the water access facilities for the park are located at the west end of Silcott Island. However, there is no deciding location identified west of the island. In other terrestional access to Chief Timothy Chief Island. In Sune Park, the west end of the island should be dredged. Plate 17, Chief Timothy State Park

Shale Parks requires a minimum depth of three feet, Minimum Operating Pool, aithough a four foot depth is preferred, to provide access for recreational watercraft to boat faunches, as well as temporary and overnight moorage facilities. If the Corps has completed southfailuts straights indicating a three foot minimum depth will not be maintained in these transformed to the foot minimum depth will not be maintained in these transformed for the foot minimum depth will not be maintained in these transformed for foot minimum depth will not be maintained in these transformed file to work with the Corps to address Parks, recreational facilities in your DEIS,

LYSD'R FERTY HIMU

The DEES states that upland disposal activities would have long-term, minor, indirect effects or Lyon's Ferry State Park, but fails to identify what the effects may be. Parks is concerned that unmanaged upland disposal would create particulate and noxious weed impacts on Lyon's Ferry State Park due to the prevailing wind direction. Without further militation, Parks believes that the lack of dues and noxious weed configuration. Without further Lyon's Ferry HMU may create a major, direct impacts on Lyon's Ferry State Park. Because specific measures to militate such impacts are not included in the DEES State Parks backs connecting.

We look forward to working with the Corps to enhance recreational opportunities at recreational eccess sites and to minimize logacis to recreation land and park merr. If you would like to discuss testes identified in this letter further, please feel free to contact me at (360) 902-8632. Thank you for your lime.

Sincerely,

Chris Regan, Environmental Specialist, Environmental Program

Reade Obern, Sacajawea State Park Manager
Mark Truitt, Lyon's Ferry State Park Manager
Bill Byrne, Central Ferry State Park Manager
Thomas Pew, Chief Timothy State Park Manager
Ilm Haris, Eastern Region Manager
Ilm Haris, Eastern Region Steward
Marles Hangen, Maintenance Chief
Jarres Horan, Boating Program Manager
Bill solly, Environmental Program Manager
Bill Peraiser, Barten Region Planner
Mark Schulz, Eastern Region Planner
Mark Schulz, Eastern Region Planner
Tony Rapozo, Eastern Region Environmental Specialist
Tony Rapozo, Eastern Region Environmental Specialist

3

Washington State Parks and Recreation Commission, Environmental Program

The US ACE has identified long-term dredging activities adjacent to state parks located on the specifications are vague in regards to existing facilities at each respective site. Although the DEIS states each alternative's ability to mainain use of existing recreational facilities, State Parks is unsure whether dredging activity at respective parks includes areas necessary to Snake and Columbia Rivers on plates 5, 11, 13, and 17 of the DEIS. However, dredging maintain existing recreation.

Parks as the DMMP is implemented. The only recreational facilities that would be dredged in the The Corps has not completed soundings specifically for Washington State Parks' facilities in the study area. The Corps can accommodate non-Federal dredging on a cost-reimbursable basis, such as that requested by Washington State Parks, and will coordinate with Washington State short term are described in Section 2.8 of the DMMP/ES.

Washington State Parks and Recreation Commission, Environmental Program

the existing boat basin, boat moorage area, and the area from the back basin to confluence with the Columbia River. Dredging of these areas is necessary to maintain recreational use of the Plate 5, Sacajawea State Park: It is difficult to ascertain whether dredging activity will include Sacajawea State Park water access site.

Plates 2-17 have been updated to better illustrate potential dredging locations. The maps do not necessarily show all of the locations that may be dredged assome areas may not be identified until sometime in the future. The boundaries of the potential dredging locations are not to scale and do not reflect exactly what area may be considered for dredging in the future.

Also see response to comment 1.

Organization

Comment 3

Washington State Parks and Recreation Commission, Environmental Program

Plate 13, Central Ferry State Park: Has the Corps considered acæss to the Central Ferry State Park Boat Basin?

Response

See response to comment 1.

Organization

Washington State Parks and Recreation Commission, Environmental Program

west end of Silcott Island. However, there is no dredging location identified west of the island. In order to assure recreational access to Chief Timothy State Park, the west end of the island should Plate 17, Chief Timothy State Park: The water access facilities for the park are located at the

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

Appendix O
Response to Comments

be dredged,

Response

implemented in order to identify non-Federal dredging that may be needed at recreation facilities. See response to comment 1. The Corps can incorporate non-Federal dredging into its overall dredging plan (non-Federal dredging would be done on a cost-reimbursable basis), and will coordinate with Washington State Parks and other recreation agencies as the DMMP is

Organization

Washington State Parks and Recreation Commission, Environmental Program

Comment 5

your proposed dreaged material management plan, State Parks would like to work with the Corps If the Corps has completed saindings analysis indicating a three foot minimum depth will not be maintained in these areas (recreational boat launches and moorage facilities) during the life of to address Parks' recreational facilities in your DEIS.

See response to comment 1.

Washington State Parks and Recreation Commission, Environmental Program

direct impact on Lyon's Ferry State Park. Because specific measures to mitigate such impacts are not included in the DEIS, State Parks cannot adequately address these concerns. unmanaged upland disposal would create particulate and noxious weed impacts on Lyon's Ferry State Park due to the prevailing wind direction. Without further mitigation, Parks believes that The DEIS states that upland disposal activities would have long-term, minor, indirect effects on the lack of dust and noxious weed containment at the Lyon's Ferry HMU may create a major, Lyon's Ferry State Park, but fails to identify what the effects may be. Parks is concerned that

Response

vegetation similar to plant species present in the surrounding areas. The Corps would monitor the site during use and restoration of the site to minimize fugitive dust to the extent practicable. The Corps would also coordinate with Washington State Parks to ensure roxious weed concerns were not be likely to cause windblown dust issues at the time of placement. In addition, as outlined in development and disposal activities that would take place at that site (e.g., noise, visual impacts, etc.). The Corps does not propose to conduct any "unmanaged disposal" of dredged materials at Appendix D of the Draft DMMP/EIS, the site would be restored by placing six inches of topsoil this site. Dredged materials that would be placed at the site would be wet and therefore would on final slopes, re-seeding the area as part of a continuing restoration program, installing a The anticipated effects of upland disposal at the Joso site were largely associated with the temporary irrigation system to establish vegetation growth as needed, and re-establishing addressed if this alternative were pursued.

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers



try of Clarkston

City Halin(509) 758-5541 • Police (509) 756-1644 • Fire (509) 738-8681 • Fan (509) 758-1670

130 Fifth Singer - Clarbetten We count

December 27, 2001

Department of the Army Walls Walla District, Carps of Engineers ATTN: Dradged Material Management Pla 2001 North Third Avenue Walls Walls, WA 99362-1876 RE: Comments to the Dredged Material Management Pla

Doer Sire:

Thank you for a copy of the Executive Summary of the Bredged Management
Plan and Environmental Impact Statement of McNary Reservoir and Lower Stabe River
Reservoire. Specifically regarding your recommended/preferred abenanive #4,
Maintenance Dredging and with Beneficial Use of Dredged Material and a 3-foot (0.9-m)
Levee Raise, the City of Clarkston has the following comments.

The City of Clarkston is of the comion there are potential impacts that abouid be considered in evaluating the effect of a water level increase. A change in water level could impact the partiestal department of the City of Clarkston was considered outstail facilities and additional sit buildup could addite the diffuse introctures. The same holds one for the City of Clarkston storm water collective for the City of Clarkston storm water collective strategy.

The City of Clarkston respectfully requests that you consider the potential impact on these items if you are seriously counidering raising the level of the Lower Granite pool.

If you have any question, please don't benitate to call. Thank you for the opportunity to respond to your recommendation.

Very truly yours

My Kan

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City of Clarkston, Mayor

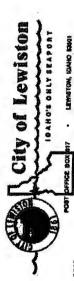
The City of Clarkston is of the opinion that there are potential impacts that should be considered in evaluating the effect of a water level increase. A change in water level could impact the physical hydraulic carrying capacity of the City of Clarkston wastewater outfall facilities and additional silt buildup could affect the diffuser structures. The same holds true for the City of Clarkston storm water collection system. Comment 1

The proposed levee provides for increased pool elevation during extreme flood events, and thus provides conveyance while maintaining a designed level of protection. The normal pool operating elevation would not increase as a result of the proposed levee raise.

Flood events provide a temporary condition in which infiltration could occur, and as such, are not changes in infiltration rates associated with the proposed levee raises were conducted. However, the pump stations behind the levee system are designed for the 100-year storm water event and stormwater flow from flood infiltration to the storm water pumping system is anticipated to be During normal operating conditions, the water level would remain at its current elevation, so during high-flow (i.e., flood) events, such as the 100-year flood or the standard project flood. expected to result in substantial amounts of infiltration. No specific evaluations of potential are anticipated to be adequate to control infiltration associated with flood events. Additional there would be no increased head and thus no increased infiltration. Infiltration could occur

fluctuations under normal operating conditions. The pool elevations will be maintained between flows, such as near the standard project flood flows, the water surface elevation would be higher during the flood peak. The City of Clarkston's facilities would not be adversely impacted by the proposed lever raise because normal operating pool elevations would not change, and high flow 733 and 738 feet above mean sea level, as has been done historically. Under extremely high With the proposed levee raise, there would be no increase in the reservoir pool elevation or events would be relatively short in duration. U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002



January 7, 2002

(202) 748-0471

Department of the Army
Walls Walls District, Corps of Engineers
Aftir: Dredge Material Management Plan
201 North Tidte Avenue
Walls Walls, WA 99362-1876

Dear Lt. Col. Wagensar:

The City of Lewiston has reviewed the draft Dredged Material Management Flan and Environmental Impact Statement, as well as attended the public meeting on the proposed alternatives and recommended option. We have the following concerns:

- Alternative 4, the preferred alternative, calls for rataing a portion of the Lewiston Levee by three fact. We are imposed to raising the levee system. We believe that raising the levee will cause additional sedimentation and over time will require additional dredging for recreational older. We believe the DMMP/ES should provide additional analysis of navigation, recreation and economic impacts to Lewiston and Carbston of nating the levee before a preferred alternative is identified.
- Levee construction is scheduled to begin after 2005. While we oppose this alternative, we would point out that should any construction take place, it should be postponed until after 2006 to ensure that the construction is not in conflict with the Lewis-Clark Bicentennial.

Thank you for the opportunity to contained on the DMMP/EE.

Sincerely,

Dorsie Masour

Janice Vassar City Manager

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Honorable Mayor and City Council
Joel Ristau, Public Works Director
Lynn Mose, Parks & Recreation Director
Beb Bushfield, Community Development Director
File



City of Lewiston, City Manager Comment 1

additional sedimentation and over time will require additional dredging for recreation sites. We are opposed to raising the levee system. We believe that raising the levee will cause

sites) with or without the proposed levee raise. The levee plan was developed in conjunction with the reduced sediment removal and is expected to provide the desired conveyance and level of flood protection through the year 2074. The need for levee raises will be re-evaluated after 2074 based on conditions at that time. The Corps will have a on-going dialogue with the ports on the lower Snake River and McNary Reservoirs to address concerns regarding dredged material management, sedimentation, and flow conveyance. This dialogue will include the Local would be required to maintain sites outside of the Federal navigation channel (such as recreation The proposed levee raise would provide protection for Lewiston / Clarkston from major flood current pool elevation or sedimentation rates. Due to ongoing sedimentation, future dredging events as a result of ongoing sedimentation. The proposed levee raise would not affect the Sediment Management Group.

Organization

City of Lewiston, City Manager

economic impacts to Lewiston and Clarkston of raising the levee before a preferred alternative is We believe the DMMP/EIS should provide additional analysis ofnavigation, recreation, and

The Corps believes its analyses of issues relating to navigation, recreation, and economic impacts (as well as other environmental and socio-economic issues), are thorough and sufficient to use in alternatives, as well as public input, were evaluated thoroughly during the process of selecting a preferred alternative. There would be no interruption of navigation for dredging or levee raise the selection of a preferred alternative. Regarding navigation, there would be no effects from adopting the preferred alternative, compared to not adopting the alternative. Effects of all construction.

proposed construction would result in increased regional jobs and procurements of equipment and DMMP/EIS. Although recreation along the walking paths would be interrupted temporarily, due Recreational and economic effects were analyzed in Chapters 1,3, and 4, and Appendix C of the to the temporary nature of the anticipated impacts, the proposed actions would not significantly disrupt recreation or other nearby recreation facilities in the Lewiston/Clarkston area. The regional economic impacts of the construction activity are expected to be positive, as the

Organization

City of Lewiston, City Manager

Comment 3

Should any construction take place, it should be postponed until after 2006 to ensure that he construction is not in conflict with the Lewis-Clark Bicentennial.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

The Corps' economic analysis of the levee modification indicates that the greatest benefits would results of the 2005 system biological checkpoint have been evaluated. If structural modifications governments and authorities with respect to the proposed levee raise to ensure local concerns are expects to make a final determination about implementing the recommended levee raise after the make a decision to implement the levee raise alternative feature of the recommended alternative. Once the decision to implement the levee raise has been made, the necessary construction funds to the lower Snake River dams have been successful in contributing to an improved adult return would be requested through the normal Corps budgeting process. Typically, it takes about two years for funding to be made available for design and construction. The funding request would rate, and the intervening sediment accumulation has continued current trends, the Corps would be submitted in 2006 and construction would most likely start, at the earliest, in the late fall of be realized if the levee raise were constructed as soon as is practicable. However, the Corps 2008. The Corps will coordinate with the City of Lewiston and other local and regional considered fully.

Final DMMP/EIS

U.S. Army Corps of Engineers Walla Walla District

Kass Rumon	Erratis	parismisc@clawiston.klus	Peris and Macrastion Devotor	State: ZIP:	ID COOL	Porte	18 AM S-Mad	Touri	· ·		where are to these for the crops and as set in the instance but the beautiful in Landson has been to the forth Drespon Veteral insuppress from. By concern celebrative in Landson has build on the Charlest Order (Carakannia and above are incompleted and the concern celebrative in the complete and the celebration of the increased in the celebration of the concession in the celebration of the celebrative celebration of the celebratic celebration of the celebratic celebratic celebration of the celebratic celebratic celebratic celebration of the celebratic cele	Thanks, Lynn Host, Parks and Recreation Director, City of Lewiston	R was great to with with Davis Danies for a few minutes, hadn't seen him for years.
Lynn	Phones	206-746-2313	Company: On of Lesiston,	sko.	Lawiston	Created On:	12/18/01 10:28:18 AN Stabus Of Orders	Ordered 18ss	Entire Report on CD: Paper copy of Main Report DRLY:	Toward Bloom the stands the	week on the Deal December of the Country of the Country of the Deal December of the Country of t	Thanks, Lynn Hoes, Parks and P	PS It was great to visit with Dev

City of Lewiston, Parks and Recreation Director

pathway would not commence prior to the Event years. I hope that is the case. There are also a number of area events, especially running related, like the Seaport River Run, tha occur each year. I trust the Corps will be working with us to time construction to provide minimal impact if recreational and tourist events. I got the impression that construction on the elevated dike and My concerns relate to the timing as it relates to the Lewis Clark Bicentennial and other area possible.

The Corps' economic analysis of the levee modification indicates that the greatest benefits would be realized if the levee raise were constructed as soon as is practicable. However, the Corps expects to make a final determination about implementing the recommended levee raise after the results of the 2005 system biological checkpoint have been evaluated. If structural modifications to the lower Snake River dams have been successful in contributing to an improved adult return rate, and the intervening sediment accumulation has continued current trends, the Corps would governments and authorities with respect to the proposed levee raise to ensure local concerns are make a decision to implement the levee raise alternative feature of the recommended alternative. Once the decision to implement the levee raise has been made, the necessary construction funds would be requested through the normal Corps budgeting process. Typically, it takes about two years for funding to be made available for design and construction. The funding request would be submitted in 2006 and construction would most likely start, at the earliest, in the late fall of 2008. The Corps will coordinate with the City of Lewiston and other local and regional considered fully. U.S. Army Corps of Engineers Walla Walla District

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Final DMMP/EIS July 2002

Best Available Copy



1626 6th Aranus M. • Lewitton, ID 83501 (208) 743-3531 • Fax (208) 743-4243 E-mail: portirio@lewiston.com

January 4, 2002

Dept. of the Army
Walls Walls District, COE
ATTN: Dredge Material Management Plan
201 North Third Ave.
Walls Walls, WA 99362-1876

Dear Lt. Col. Wagenaar.

Statestent meeting in Lewiston on December 13, 2001, we have the following comments: After attending the Drodge Material Management Plan and Environmental Impact

The reference map, "Plate 17," aboves the limits of mylgational dredging enting at approximately river mile 1.6 on the Clearwate River. We believe this area was depicted because it was the limit of navigational dredging on the last dredging protect. The conscressionally authorized arvication limit is river mile 2.0 on the Character River (the Memorial Bridge over the Character River).

Because this is a 20-year Dreige Management Plan, we believe that the plan should clearly represent the actual limits of arvigational dreigning. Currently, there is no need to dreign the averaginousl channel east of the area shown on Plate 17. However, 10 years from now we may said this area dreighd to extend navigation. We do not want to not into problems down the road because the process Management Plan did not reflect the authorized limits of navigational dreigning.

2. Alternative 4, the preferred alternative, calls for ruining a portion of the Lewiston Leves by three feet. We are strongly opposed in raining the Lewiston leves. Arston. Var believe that raining the leves would cause additional sodimentation and conservation retrainer that have the leves that the leves the leves the leves the leves three feet and protection that are and posts of Lewiston and character the Chiese and Posts of Lewiston and Charteston. Resisting the eves only further cuts Lewiston of from access to the river. Allowing additional sodiment to build-up will be detrimental to the community's shiftly to develop thurse water from facilities. The DMARF/EIS should provide a through analysis of navigation,

recreation, and economic impacts to Lewiston and Clarkston of raising the leven before a parietred alternative is identified.

Leves construction is scheduled to start after 2005. While we oppose this alternative, we would point out that should any construction take place, it should be postpoused (providing there are no safety issued) until after 2006. This will cannot that the any construction is not in conflict with the Lewis-Clark Biscontonial.

Thank you for the opportunity to comment on the DAMAPHES. We would be happy to provide any additional information regarding our comments if required.

Shoerely, PORT OF LEWISTON

David R. Doen

0-51

Port of Lewiston, Manager Comment 1

approximately river mile 1.6 on the Clearwater River. We believe this area was depicted because it was the limit of navigational dredging on the last dredging project. The Congressionally authorized navigation limit is river mile 2.0 on the Clearwater River (the Memorial Bridge over the Clearwater River). Because this is a 20-year Dredge Management Plan, we believe that the The reference map, "Plate 17," shows the limits of navigational dredging ending at plan should clearly represent the actual limits of navigational dredging.

Response

The map (Plate 17) has been revised to show the proposed dredging area extending up to

Clearwater River Mile 2.

Organization

Port of Lewiston, Manager

would cause additional sedimentation and over-time require additional dredging for recreational We are strongly opposed to raising the Lewiston levee system. We believe that raising the levee Comment 2

sites and port berthing areas. Response

sites outside of the Federal navigation channel due to ongoing sedimentation with or without the levee raise. See response Idaho Department of Environmental Quality comment 6 regarding the need for levee raises in the future. The Corps will coordinate with the ports on the lower Snake The proposed levee raise would provide protection for Lewiston / Clarkston from major flood current pool elevation or sedimentation rates. Future dredging would be required to maintain River and McNary Reservoir to address concerns regarding dredged material management, events as a result of ongoing sedimentation. The proposed levee raise would not affect the sedimentation, and flow conveyance. This dialogue will include the Local Sediment Management Group.

Port of Lewiston, Manager

Comment 3

impacts to Lewiston and Clarkston of raising the levee before a preferred alternative is identified. The DMMP/EIS should provide a thorough analysis of navigation, recreation, and economic

The Corps believes its analyses of issues relating to navigation, recreation, and economic impacts adopting the preferred alternative, compared to not adopting the alternative. Effects of all alternatives, as well as public input, were evaluated thoroughly during the process of selecting a (as well as other environmental and socio-economic issues, are thorough and sufficient to use in preferred alternative. There would be no interruption of navigation for dredging or levee raise the selection of a preferred alternative. Regarding navigation, there would be no effects from construction.

There would be an on-going need to dredged recreation and port facilities on a periodic basis regardless of the proposed levee raise.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

other nearby recreation facilities (walking paths, etc.) and the temporary nature of the anticipated Recreational and economic effects were analyzed in sections 1,3, and 4, and Appendix C of the impacts would not significantly disrupt recreation in the Lewiston/Clarkston area. The regional DMMP/EIS. Although recreation along the walking paths would be interrupted temporarily, economic impacts of the construction activity are expected to be positive, as the proposed construction would result in increased regional jobs and procurements of equipment and materials.

Organization

ort of Lewiston, Manager

Comment 4

Should any construction take place, it should be postponed (providing there are no safety issues) until after 2006. This will ensure that the construction is not in conflict with the Lewis-Clark Bicentennial.

Response

See response to City of Lewiston's comment 3 and response to City of Lewiston Parks and Recreation Comment 1.

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U.S. Army Corps of Engineers Walla Walla District

Best Available Copy



CONFEDERATED TRIBES

MATURAL INSTITUTORS

Navabilla Indian Reservation P.D. Ber 828

PENDLETOR, OREGON \$7201
hea cods 500 Phone 276-3629 FAX 276-0540

nury 7, 2002

Jennery 7,

Jeck Sands, Project Manager
U.S. Army Capps of Engineers
Walls Walls District
201 North Tlaird Avenue
Walls Walls, Wasakington 99362-1876

Dear Mr. Sands:

This letter constitutes the Confidenated Tribes of the Umatila Indian Reservation (CTUIR) Cultural Resources Protection Frogram (CRFP) comments on the draft Dredged Materials Mangarnent Plan and Environmental Impact Statement (DMMPIEIS). We would like to begin by referring you to two previous letters submitted by the CMFP regarding this subject, one deted November 13, 2000 to Sandy Simmons and one dated December 18, 2000 to Mary Keith.

We approciate that the Corps decided to prepare un Environmental Impact Statement rather than an Environmental Assessment for this project. However, we still have some concerns in the document. The DMMPFES notes that tibes have been invited to perticipate in the Local Soliment Management Group (LSMQ), however it refers to the tribes as merely interested norms.

Additionally, other focal entities with an interest in management of the resources involved in developing and disposal activities (Indian tribes, poets, osesties, municipalities, environmental groups, and temporation and industrial interests) would be saked to participate on an assented basis. DEIS § 1.8

The tribes are not simply interested parties, we have rights, secured by treaty to resources impacted by Corps operations. We would like it citatified that Native American Tribes are not post stakeholders in this project. The Corps has a trust responsibility toward Tribes and between casson simply group them in with greatying else. It is important that the EIS be specified as to how they instead to meet this responsibility. Currently the only reference to the trust responsibility is,

Tribes would like their interests and rights considered within the context of certain tribes cultural values and perspectives not universally represented in Federal decision-making. The TREATY JUNE 9, 1858 + CAYUSE, UNATILLA AND WALLA WALLA TRIBES

Federal government's trust responsibilities to bibes are meant to occur through ongoing metallight Federal agency constitution with tribl government. The context for bribel interest must be examined both from the perspective of Federal kept responsibilities as well so those points raised by this government inprosentatives. Frosection of brast rights and resources and cultural renounces are of interest to both tribes and the Corps. DELS § 3.14.3

102 This paragraph indicates that the trust responsibility is not the vough countlation. This is not the care. The trust responsibility requires the Corps to clearly and deliborately consider the impact of Corps actions on tresty reserved and stabutedly protected resources of the clear, whether they are fitte and widdlife resources or calcular is resources. When there is a conflict between statistics and and fresty rights, the Corps is required to protect the treaty resources because the componentiality, in cases, required the Corps to approach they are approached the treaty reserved resources, not to ignore them is light of other legal repeatabilities. The DERS has a great deal of material on the gludence in implementing the trust responsibility but it has only this one substantive reference to

The DMBAPTESS explains the Local Sediment Meangement Group's (LSMG) purpose well. However, use of its objectives is to "consider necessary cultural resources protection." We feel half this integroprists. Considering cellular insources involves throwing the location and relate of collecting the continual protection and relate of collecting the continual insource necessary. This information is seried via and choice for the selection and non-cultural instructor personnel. Page ES-17 of the draft DMMFFIS states.

3

The development, insplanentation, and mostloring of project sections would be conducted in conference with the NHPA [National Historic Preservation Act] and the Nutional Environmental Policy Act. Prior to finalization and insplanmentation of any plan, the Corps would complete the required enfural resource consultation. The Corps would continue to counst with appropriate State and Third Historic Preservation Officer(s) as well as other affected consulting parties throughout the life of the 20-year plan.

We would like clarification on this master. Prior to each field-vidual dradging event, will the Corps angage in consultation with the CTUIR regarding cultural insources? What form will this corps in consultation with the CTUIR regarding cultural tensurces? What form will this consultation take? Will the CEPP have the reproposed dradging-disposal areas indicated this is not the case, then the CEPP objects to the proposed dradging-disposal areas indicated on plates 2 through 6 and 8 through 11 breauses of their vicinity to known cultural resource sites.

As for comments specifie to cultural resources, we were disappointed to learn that the Corpa does not place at Cultural Resource Appendix to the EIS. Rather, a few paragraphs are all that will be dedicated to this resource. We believe that the appendix Mary Keith prepared had a great deal of information in the interior of the propose of the propose of the consultation process, gave an overview of the use of the propost area over time, discussed bow the alternatives could affert clearly endited to the section of the propost of the section of the propost of effects one might encounter it offered nomes of the preservor as well as management fenue, as a process to address effects to resources. There make be a colvinal resources appendix addressing thase issues because all of them are completely ignored in the DMAPPEIS. Additionally, the

8

Confederated Tribes of the Umatilla Indian Reservation

P.O. Box 839 * 72239 Confedented Way Pendelon, OR 67801 (841) 278-8185 * (846) 808-8027 * (541)-278-3085 (7)

To the Dredged Patenid Mystlemen Je / Jan Pett, CROP 1/1/02 F 504527-7832

O Piesses Resynta O Picaso Germanus | O Picaso Bapty Il Ker Bowlery

Respectfully,

We look forward to seeing our comments addressed in the final DMM/DES. If you have any questions, please feel free to contact me or Casheriae Dictoors, archarologies, at (54)) 276-3629.

ce: Carl Meelde, Salmon Rocowery Policy Analyst Audit Huber, Intergovermental Affairs Manager Michael Farrow, Department of Natural Resources Director

\$

omiters we identified in tou comments on this secondix (the Describer J.R. 2000 letter referred to above) have not been addressed.

On page ES-16 of the DMAQP-EIS, it states, "Dividing scions for all four alternatives would be limited to the removal of accumulated switments and would not affect original riverbed or showline material, or calmus resources contained within the presental, or calmus resources contained within the presental." It this true for bost,

5

range, FMUs and similarly situated areas? Are there any guarantees that removal wan't effect cultural resources in the resorvels wan't effect cultural resources in the resorvels? Lear on the state page it easter, "known submeraged culture resource sites would be areaded to the maximum catesty practicable during the pherement of dredged maxima. We think we need specified on what exactly "maximum stress practicable areas. We are disappointed that unideositifed pubmissized cultural resources are not disappointed that unideositifed pubmissized cultural resources are not disappointed.

28

Corps to certitive its policy on insubvertent discoveries of insecretal remains and to develop a contingency plan if an archeological are is disturbed during dwelging activities. As the Corps well knows, tradvertess discoveries are away of life along the Columbia and Stakes rivers. A contingency plan is critical to consistent implementation of the WHPA as well as the Archanological Resources Protection Act and the Native American Graves Protection and Repartientes Act.

Finally, to reterrate some of what we have said to our previous letters, the CRPP would like the

2



DEPARTMENT of NATURAL PESCURCES

Cultural Resources Prosection Program

Umatilla Indian Reservation

Phone (541) 278-3629 FAX (541) 276-1988 FAX (541) 276-0540 PENDLETON, OREGON 97801 P.O. Box 638

November 13, 2000

Walls Walls, Washington 99362-1876 ronmental Compliance Section ATTN: Sandy Simmons 201 North Third Avenue Walla Walla District Corps of Engineers

Subject. Public Service Notice Number CENWW-PM-PD-E po-02

Dear Mr. Simmons.

Thank you very much for providing the Confederated Tribes of the Umetills Indian Reservation (CTUIR)
Department of Natural Resources Cultural Resources Protection Program (CRPP) with an opportunity to comment on the Environmental Assessment (EA) for the Interim Lower State, Clearwater, and Mid-Columbia River Dreaging project. We have a number of concerns.

Please note that the Public Notice and the CRPP's trapt to the notice constitute cultural resource consultation with the CTUR on a technical level. It dres not replace government to accomment consultation necessary before dredging deposal activities can proceed.

1855. Additionally, these commonts are limited to cultural resources. The CTUIR will submit comments regarding other concerns separately. We have no concerns with Abernative A. No Action. Our concerns Management Unit. This alternative is not acceptable because there are a number of cultural resource area in this disposal area. The CRPP's concerns regarding Alternative D. In-water Disposal or Other. Beneficial Use, are similar to those regarding Alternative B. Aremative D is the Corps' preferred. with Abgrantive B are that in tream disposal of dredge materials may karm cultural resources (this will be discussed in depth below). Alternative C involves disposal of dredge materials in the Joso Habitat Our concerns are specific only to the lands ceded by the CTUIR to the US government in the Treaty of

> 13 See 12

2

Keith's September 18, 2000 "Calaural Resource Inventory Report FY 2000-2001 Interm Dredging."
This report indicates dredging within the CTUR's ceded lands will be just below the Lower Manumental Dann. 1985 - The EA does not include the Hollebeke dredging in the 2000-2001 dredging plans discussed on 1985 - Pali, but it does list it in Table 2, Sites to be Dredged, on page 5. The CTUR is concerned about Because of confusion about exactly which stras were to be dredged in 2000 to 2001, we examined Mary

*

Public Service Marice Number CENTATA-PA-PO-# 00-60

Sec 13

hese sites have been fromed incligible for inclusion in the National Regules of Hustone Places, placing dredge spoils upon them would be an adverse street.

who is on the Reigional Dredging Team. Why is work to be coordinated with this group not subject to an EA or an environmental impact statement? The future dredging provisions include preparation of a cultural resources evaluation for each dredging event, but the EA does not specify who will conduct this evaluation and that it will be done in comultation with affected tables. Without such consultation this The CRPP is concerned with the EA's system for essessing the impacts of future dredging. We wonder evaluation will not satisfy the National Historic Preservation Act. 13

Presumably, the intended meaning is that buried is a mitigation alternative comparable to excavation. The (sie) that the design and construction of a protective resource covering needs to be favorable to the preservation of substurface cultural deposits. The objective is not to stop the deletioration rate of cultural materials, but rather to not contribute further to their loss. In order to determine if in-water disposal terens) statements and draws conclusions with which the CRPP does not agree. On page 48 the EA says, "Burial of archaeological sites for their protection is a viable attenuative to scientific excavation." etions would adversely affect a outunal property, the nature of cultural deposits and project affects must The Cultural Resources sub-section of Affected Environment and Environmental Consequences makes EA goes on to state, "However, the complex reaction between site soils and cultural materials require the aggregated.

resulted in large cemetanies being urtaited over time on many of the islands in the rivers. However, it also indicate that a person should be buried no more than 18 to 24 inches below the surface of the ground. The First, the CTUIR does not agree that burial of sites "for their protection" is automatically an acceptable way to mingate adverse effects. In fact, traduceal Mance American burial customs in the Middle Columbia and Lower Snake River regions involved interribs proprie where they passed over. This means that burials can be encountered anywhere within the tribes' traditional areas. Traditional beliefs CTUIR is very much opposed to any action that would add to the depth of the burials. 16

Second, taken cogether, all of these statements in the EA indicate that placing dredge spoils on sites can be an adverse effect. In the early 1980s the Corps of Engineers (Corps) worked with other agaments in prepaie Leniban et al. 's National Reservoir faundation Study which discussed the impacts reservoirs have on Cakaral resources. Lemilans et al. souced that the common wristorn was that burying a site should "enhance rather that detract from long-term site preservation" (p. 102). They went on, however, to say that the benefit may be "more imaginary than real... The stresses involved is such burial may, over the long term, have adverse effects on the resource base." Sec 16

Third, it is our understanding that it is exectly the Corps' responsibility to "stop the deterioration rate of cultural materials" when their project is causing the adverse effect.

fact, the EA makes a "no historic properties affected" determination based in part on the location of areas to be dredged and spoils location in areas fice of cultural resources (based on available data). The CTUIR would like to point out that the available data ormist primarily of pre-reservoir studies done in the 1940s. and 1950s. These studies focused on suversigning large and/or speciacular sites. Many smaller prehistoric sites and almost all historic sites were not recorded. Subsequent surveys taxes located many outburst resources not identified in the early surveys. Therefore, the CRPP believes it is imppropriate to assume that all of the dredge disposal sites and the strust to be dredged are free of cultural resources based ourth, the EA makes no provition for assessing the "nature of cultural deposits and project effects." In

+ CAYUSE, UMATILLA AND WALLA WALLA TRIBES

JUNE 9, 1855

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Public Service Nasica Number CEN WW.PM.PD-E 59-05 1973/00 solely on the pre-restorwoir studies. As an example, site 10-33-04/01 was recorded in 1999. It is a prehistoric artifact seator with fire-cracked rock, cobble tools, a net weight, and flakes. Artifacts were logged out along the beauth, suggesting that part of the site may be immedited. This site is very near the dregging to be done for the Hollebete Habitat Management Unit. It is restorable to believe that the dregging could adversely effect the site by dredging through it or provoking sub-surface erosion as the newly dag trench achieves an appropriate angle of repose.

In summary, our greatest concern with the in-stream disposal of the dredged materials is that we have no assurances that, indeed, there are no cultural resource sites in the areas to be utilized. If the Corps selected upland disposal, selected areas could be cleared. This would be done first by above-ground cultural resources are present. These kinds of showell test probes to determine whether below-ground cultural resources are present. These kinds of determinations are also possible for immediated areas. The Corps may want to consider an underwater archaeology program or a drawdown to properly inventory and assess the cultural resources in the areas to be impacted by dredging activities. The CTUIR does not accept the side that is fact that intudented cultural resources are difficult to access makes them ineligible for inclusions in the National Register.

In order to adequately assess this project's effects to cultural resources, we believe an environmental impact statement is necessary. As written, the EA si difficult to follow because it is unclear what is Expering in 2000 and 2001 and what is happening in 2003. Many of the areas identified on the plates as disposal areas and some of the areas to be dredged will impact cultural resources sites. Because the 2001 to 2003 dredge oversit are only partially covered under this EA, it is not clear to what extent they should be commented upon. We are incomfortable with the idea that these comments will be our only opportunity for technical cultural resource censultation for three years' worth of dredging.

1

The CRPP strongly disagness with the Finding of No Significant Impact and the finding of no historic proporties affected. We believe that this EA and its provisions for funce deciding proclude understanding the cumulative effects of this multi-year project. We believe that both the 2000 to 2003 diedging itself and the proposed in-tream disposal of dredge materials have the potential to adversely affect both known and unknown cultural resources.

Dank you very much for your time and kind attention. If you have any questions, please call me or Jeff Van Polt, Program Manager, at [541] 276-3629.

Sincerely,

Cetherin E. Dimen

Or Manfred E. W. Jachnig, Ph.D.
Principal Investigator and
Tribal Historic Preservation Officer

ced/MEWJ

ce: Jeff Van Pelt, CRPP Manger Carl Merkie, Salmon Recovery Policy Analyst Audie Huber, Intergovernmental Affairs Manager Michael Farrow, Department of Narural Resources Director 5 + CAYUSE, UMATILLA AND WALLA WALLA TRIBES

TREATY JUNE 9, 1855

CONFED Penal (541) Presess

CONFEDERATED TRIBES

Cultural Protection Program

DEPARTMENT of

Uniailla Indian Reservation

P.O. Box 636 PENCLETON, ONEGON 97801 Phone (341) 278-3629 FAX (541) 276-0540

December 18, 2000

Mary Kaith Department of the Army Walls Wells District, Corps of Engineers 201 North Thard Avenate Walls Wells, Washington 99362-1876

Dear Mary.

Nank you for the opportuaity to comment on the draft cultural renounces appendix for the draft environmental impact statement (ELS) for the Dredge Meanth Meagement Plan for the McNury and Lower Souks River Reservoin. We apologize for the dalay in submitting these comments.

I would like to begin by noting that we found it difficult to consument on this document without having the cariter data. Bill, We do not have items referred to in this document including other Appendices and the main wat of the dard BLS. We are unable to place the cultural resources portion of the proposed illumentatives into a larger constat. Without man showing specifically where the druging is proposed and the new of potential effect, we cannot evaluate the number of sites identified for each proposed darding are. Finally, we fast that our consuments on this document could prohid us from commenting on the drug BLS as a whole. We will have more thorough comments perhaps covering other lesses when we receive the cash of RER ELS.

- 6 Our preferred alternative is not one of the choices. We would like one of the alternatives to be no driedging at all. Our second choice is Alternative 3, upland disposal of driedged materials. It is only frough this alternative that we can determine the eligibility of sizes that will be imparted by the disposal of drough majorities. In the discussion of how to address calabral recurron conserts for this alternative, you need to mention antitional authant properties—how will they be identified and if there are any, bow will the adverse effects to them be mitigated.
- See 12 We feel that is stream disposal is uniscopiable because of the potential adverse effects to largor and instrument cultural actions. Builds can be encountered asymptors within the tribos' traditional areas. Traditional beliefs make the a behavior to many than 18 to 24 inches below the surface of the ground. The Confederated Tribes of the Unwalls Indian Resorvation (CTUR) is very much opposed to any socious that would add to use depth of the builds.
- See 10. We have a surpler of consents with this document as it now stands. What is the Corps' policy on stands-crient discoveries of ancestral consists? Under the Native American Graves Protection and Repairation Act the Corps must conse activities for 30 days to notify Native American tribes. Prior to

TREATY JUNE 9, 1855 + CAYUSE, UMATILLA AND WALLA WALLA TRIBES

O-56

desurbod during dradging? The CTUIR in dradging activities.

The second Table 1, which begins on page 12, leas a number of dradging areas that have no drodging history. We believe that these areas must be treated differently than those which is dedicated before; this difference is reflected in the except of 33 CFR 336 provided in Anachi was no each difference reflected in the fact.

19

We are carrious bow the Corps pleas to determine which immedated sizes are eligible/pertennially eligible for inclusion in the National Register of Finence. These bow will you ristings adverse effects to immedated eligible sites? Perhaps these subjects will be included in the cultural resources plea mentioned to page 32. Will that plan be part of the final draft Eli?? If not, whose will it be available for commant? 20

We feel that tables similar to Table 7 need to be developed for all of the other reservoirs. How specifically will the Corps assess the potential for communicants in deedge materials to abbe outbree-bearing soil? We would like to see specific clushes for many of the claims made in the sections 3.2.1, 3.2.4, 3.3.3, and 3.2.4. Will the derivating of the irregularly shaped areas to be drulged be included in the deaft of the Bills? They would be halpful. 21

On page 23 in a discussion of Mathewson et al. you make the susament, "The objective is not to stop the determines may of cultural mesential, but rather to not contribute further to their loss." Since this statement is not frue Corps' responsibility, which is in the to stop the deterioration rate of cultural resource if they are being adversely effected by a Corps andmetaking, it seems you are apositing of Mathewson et al. is objective. We suggest that you ome this someone. 77

it is important to note that the CTUIR nose a difference between stabilizing situs that are actively being adversaly effected by an action such as evolice and placing fill over a site that as far as expose knows Sairly state.

Finally, we advise you to carefully prooffeed the appendix. There are a number of grammatical errors, appearedly meaning bits of lext, and aumbering problems in both the text and the labbas. We are missing pages 41 and 42. There are conflicts between dame and names cited in the text and the citations in the bibliography. 23

We appitated the appendix's surplease on tribal consultation. We appreciate the Corpa' efforts to begin that process early. We hope these comments are helpful. We recomment that in the faune the Corpa be note specific about when it needs comments and why documents are being delivered one section at a time. If you have any questions, please feel froe to combet me or Catherine Dicheon at [541) 276-3629.

VP/cod

oc: Michael Farrow, Departments of Natural Resources Dire Audie Huber, Intergovernmental Affairs Menager Jack D. Sonde, Environmental Study Manager

+ CAYUSE, UMATI TREATY JUNE 9, 1855

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

therefore cannot simply group them in with everyone else. It is important that the EIS be specific impacted by Corps operations. We would like it clarified that Native American Tribes are not The Tribes are not simply interested parties, we have rights, secured by treaty to resources mere stakeholders in this project. The Corps has a trus responsibility toward Tribes and as to how they intend to meet this responsibility.

The Corps' relationship to the Tribes is discussed in Sections 3.14 and 6.4. The effects of the alternatives on Native American Tribes and communities are discussed in Section 4.15.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 2

of Corps actions on treaty reserved and statutorily protected resources of the tribe, whether they This paragraph indicated that the trust responsibility is met through consultation. This is not the case. The trust responsibility requires the Corps to clearly and deliberately consider the impact are fish and wildlife resources or cultural resources.

The paragraph referenced in the comment has been revised. The Corps has considered the potential impact to the fish, wildlife, and cultural resources in your reference for each of the alternatives evaluated.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

resources involves knowing the location and nature of cultural resource sites. This information is The DMMP/EIS explains the LSMG's purpose well. However, one of its objectives is to "consider necessary cultural resource proection." We feel that this is inappropriate. Considering cultural sensitive and should not be shared with non-cultural resource pasonnel.

on an as-needed basis. Likewise, the nature and extent of cultural resource site information that is protected. Because the Tribes in the region are participants in the LSMG, the Corps is assuming the Tribes will assist in developing protocols for what information can be shared and with whom The sensitivity of both cultural resource site information and location is integrated into the Corps' procedures. The location of cultural resource sites will not be given to the general public. The appropriate precautions will be taken to ensure sensitive cultural resources information is released will be limited to only the minimum necessary and appropriate for each specific

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 4

We would like clarification on this matter (Page ES-17 of the draft DMMP). Prior to each

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

individual dredging event, will the Corps engage in consultation with the CTUIR regarding cultural resources?

other interested parties concerning it proposed dredging and cultural resources issues. The Corps undertaking has been initiated. To meet its compliance requirements under Section 106 of the National Historic Preservation Act, the Corps will continue to coordinate with the CTUIR and Government-to-government consultation between the Corps and the CTUIR on the DMMP will consult with the CTUIR and other tribes for each dredging and disposal activity.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 5

be included somewhere in the EIS. There must be a culturd resources appendix addressing these We believe that the appendix Mary Keith prepared had a great deal of information that needs to The cultural resources appendix the CTUIR received was a draft. Upon reviewing the level of issues because all of them are completely ignored in he DMMP/EIS.

contained in the main document meets NEPA requirements and is a thorough evaluation. Further cultural resources information already contained in the main document, the decision was made to information can be found in the Lower Snake River Juvenile Salmon Feasibility Study and its not to repeat it in an appendix. The Corps believes that the cultural resources information Appendix Q (incorporated by reference).

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 6

Additionally, the matter we identified in our comments on this appendix (the December 18, 2000 letter referred to above) have not been adtressed.

Response

The November 13, 2000 and the December 18, 2000 comments submitted by the CTUIR are included here for response.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 7

On page ES-16 of the DMMP/EIS, it states, "Dredging actions for all four alternatives would be ramps, HMUs and similarly situde areas? Are there any guarantees that removal won't affect shoreline material, or cultural resources contained within that material." Is this true for boat limited to the removal of accumulated sediments and would not affect original riverbed or cultural resources in the reservoirs?

Response

See response for Nez Perce Tribal Executive Council's comment 34.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

We think we need specifics on what exactly "maximum extent practicable" means.

Comment 8

procedures and quality controls directed at preventing dredged naterial from being placed directly on known inundated historic properties and that there will be minimal impacts associated Based on the available cultural resources site location information, the Corps will set forth with sediment drift.

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 9

We are disappointed that unidentifted submerged cultural resources are not addressed at all.

The Corps is not aware of any technology or methods presently available that would allow it to effectively address the matter of unidentified submerged cultural resources.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 10

remains and to develop a contingency plan if on archeological site is disturbed during dredging The CRPP would like the Corps to outline its policy on inadvertent discoveries of ancestral

The Corps' designated points of contact will be immediately notified of the discovery. The Corps be made to establish the cultural identity of the remains (Native American or not). If the remains will notify appropriate Indian Tribes, law enforcement, and coroner's offices. Every effort will Native American Graves Protection and Repatriation Act. The same process will be used if an immediate area will stop and will not resume until the matter has been satisfactorily resolved. are determined to be Native American, the Corps shall comply with the terms set forth in the If human remains are inadvertently discovered during dredging operations, all work in the archaeological site is inadvertently impacted.

It should also be noted that the dredging at the confluence has been done to a greater extent in years past and that other sites will have minimal dredging occurring.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 11

Please note that the Public Notice and he CRPP's reply to the notice constitute cultural resource consultation with the CTUIR on a technical level It does not repace government-to-government consultation necessary before dredging deposal activities can proceed.

Response

See response to comment 4 above. The Corps will fulfill its responsibilities with respect to

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Appendix O
Response to Comments

government-to-government consultations. See Section 6.4.3 of the DMMP/EIS for detailed discussion of this process.

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

Comment 12

Our concerns with alternative B, alternative D, Other Beneficial Uses, or in-stream disposal of dredge material are that they may harm cultural resources.

Response

See response to comment 8 above.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 13

fliernative Cinvolves disposal of dredge materials in the JosoHabitat Management Unit. This alternative is not acceptable because there are a number of cultural resource sites in this

isposal area.

Prior to undertaking disposal of dredged materials in any upland area known to contain historic properties, cultural resources assessments will be done on the properties to determine their National Register eligibility and if they should be given additional consideration (e.g. protection, (voidance, etc.).

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 14

he CTUIR is concerned about scultural resources in the project areas.

See response to comment 13 above.

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 15

include preparation of a cultural resources evaluation for each dredging ewent, but the EA does not specify who will conduct this evaluation and that it will be done in consultation with affected wonder who is on the Regional Dredging Team. Why is work to be coordinated with this group The CRPP is concerned with the EA's system for assessing the impacts of Juure dredging. We not subject to an EA or an environmental impact statement? The future dredging provisions Tribes. Without such consultation this evaluation will not satisfy the National Historic

reservation Act.

The membership of the Regional Dredging Team (now the Local Sediment Management Group) is listed in Section 1.8 of the DMMP/EIS. The DMMP/EIS is the NEPA document that addresses

Final DMMP/EIS

July 2002

parties to identify potential impacts of the dredging and disposal activities on cultural properties. As stated in Section 4.5, the Corps would consult with the SHPOs, Tribes, and other interested This consultation will follow the National Historic Preservation Act Section 106 process.

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 16

First, the CTUIR does not agree that burial of sites Jor their protection" is automatically an acceptable way to mitigate adverse effects.

adverse effects. Studies done on site burial have shown both the advantages and disadvantages that can result from covering sites. The Corps will consider this option on a case-by-case basis The Corps agrees that burial of cultural sites is not automatically an acceptable way to mitigate and consult with the Tribes and other interested parties before making any decision on what action will be taken.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 17

In order to adequately assess this project's effects to cultural resources, we believe an

environmental impact statement is neæssary.

material disposal for the next 20 years. The effects of these activities on cultural resources have been considered. Each time the Corps proposes to dredge, it will evaluate the effects of the dredging and disposal activity on cultural resources. The Tribe will be given the opportunity to The interim dredging was not implemented. This DMMP/EIS addresses dredging and dredged review and comment on each dredging activity.

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 18

We would like one of the alternatives to be no dredging at all.

"no dredging" alternative would not meet the project purpose and need. None of the sediment reduction strategies were totally successful in stopping sediment from entering the river and depositing it where the material would interfere with navigation, recreation, and irrigation intakes. Some level of dredging would be required to maintain the navigation channel.

Regardless of the alternative selected, the Corps would avoid known cultural properties in the dredging and disposal areas.

Also see response to Save our Wild Salmon's comment 6.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Organization

Confederated Tribes of the Urnatilla Indian Reservation, Cultural Resources Program Manager Comment 19

The second Table 1, which begins on page 12, lists a number of dredging areas that have no recorded dredging history. We believe that these areas must be reated differently that those which have been dredged before; this difference is reflected in the excerpt of 33 CFR 336 provided in Attachment A. We see no such difference reflected in the text.

See response to the Nez Perce Tribal Executive Council comment 34.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 20

We are curious how the Corps plans to determine which inundated sites are eligible/potentially eligible for inclusion in the National Register of Historic Places. Then, how will you mitigate adverse esfects to inundated eligible sites?

Historic Preservation Offices, Indian Tribes, the Advisory Council and other interested parties to with regard to determining National Register eligibility. As established under Section 106 of the National Historic Preservation Act, the Corps will coordinate/consult with appropriate State The Corps will work from existing information available on inundated cultural resources sites consider possible mitigation actions for Register-eligible sites.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 21

culaire-bearing soit? We would like to see specific citations for many of the claims made in the sections 3.2.1, 3.2.2,3.3.3, and 3.2.4. Will the drawings of the irregularly shaped areas to be We feel that tables similar to Table 7 need to be developed for all of the other reservoirs. How specifically will the Corps assess the potentia for contaminants in dredge materials to alter dredged be included in the draft of the EIS? They would be helpful.

anticipate that proposed dredging or dredged material management would result in impacts to The Draft DMMP/EIS presented and the Final DMMP/EIS presents maps showing proposed dredging and in-water habitat creation/beneficial use areas within the lower Snake River and constituents of dredged material to after culture-bearing soil. However, given the existing information on sediment quality (see Section 3.9 of the DMMP/EIS), the Corps does not McNary Reservoirs. The Corps did not specifically analyze the potential for chemical culture-bearing soil.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Organization Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

Comment 22

On page 23 in a discussion of Mathewson et al. you make the statement, "The objective is not to stop the deterioration rate of cultural materials, but rather to not contribute further to their loss." Since this statement is not true of the Corps' responsibility, which is in fact to stop the deterioration rate of cultural resources if they are being adversely affected by a Corps undertaking, it seems you are speaking of Mathewson et al.'s objective. We suggest that you omit this sentence. It is important to note that the CTUIR sees a difference between stabilizing sites that are actively being adversely affected by an action such as erosion and placing fill over a site that as far as anyone knows is fairly static.

Response

for the 1999 Interim Dredging Draft Environmental Assessment. Because this information is not This comment is specific to information contained only in the draft cultural resources appendix in the DMMP/EIS document, it will not be addressed.

Organization Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

Comment 23

Finally we advise you to carefully proofreat the appendix. There are a number of grammatical errors, apparently missing this of text, and numbering problems in both the text and the tables. We are missing pages 41 and 42. There are conflicts between dates and names cited in the text and the citations in the bibliography.

Response

Your comment is noted.

U.S. Army Corps of Engineers Walla Walla District

0-61



Established by the Treaty of June 9, 1855

January 18, 2002

Department of Army Walls Walls District, Corps of Engineers ATTN: Dredged Material Management Plan 201 North 3" Avenue Walla Walla, WA 99362-1876 Walla Walla District Draft Dredged Material Management Plan and EIS

Dear Mr. Sands:

Ë

The Yakana Nation (YN) submits these comments regarding the draft Dredged Material Management Plan and Environmental largest Statement (DES) released by your office. These comments are the final version of comments submitted to your office January? We incorporate the comments submitted by the Columbia River later-Tribal Fisheries Commission by reference. The YN has a variety of concerns with the DEIS as released by your office. The graciest concern we have revolves ground to-water disposal. It appears that there is inadequate information and analysis conducted to reach the conclusion that in-waler disposal will benefit fish and other biological organisms. There is a strong posaibility that the preferred alternative will cause serious harm to listed species and true resources.

While we support the Corps' intent to benefit the natural covinonment the preferred alternative, which would create shallow water habitat, it not supported by sound science. While the referenced study may have shown a correlation between existing shallow water tabina and salmound use, it appears that the Corps is overreaching in utilizing this as a basis for in-water disposal in the DEIS.

The Coms should also movide additional study as of droked material for contamination irrespective of the disposal option selected. There is evidence of sediment contamination created by the Huntovic Project and elevated levels of mercury above Grand Coulee Dam. Dredging and redeposition of contaminated sediments will impact trust resources and ESA. listed species including fish and terrestrial species.

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3 574 9

The DEIS acknowledges that an alternative to dredging exists in controlling upland erosion. While the DEIS states this fact, there is no alternative including this as an

43

Post Office Box 151, Fort Road, Toppenish, WA 98948 (509) 865-5121

3 cont.

Oxion. The Council on Environmental Quality has explicitly stated in the Forty Most Asked Questions that agencies should include reasonable alternatives even though such alternatives may be oranide the existing authority of the action agency.

The control of upland sections: sources is a reasonable attenuative to include given the long-term mature of the dredge program contemplated in the DEES. It is entirely conceivable that this alternative type approach could be implemented, but only if the action agency takes a first stop towards considering it.

We remind you that the U.S. Army Corp of Engineers has a rune responsibility to the Yestana Nation. Irresponsive of how the Corps may inserpret in day towards the YN, may demage to trust resources through such activities as deedging, damage that implicity impacts the membership of the YN, is constany to this trust placed upon the Federal povernment and its agents.

4

Piense fieul five to consisce Me. Paul Word, Environmental Managor, YN Fisherias Resource Management Program at (509) 865 6262 with any questions regarding these comments.

Sinonely,

Department of Natural Resources Valcama Nation Water/Fish/Wildlife/TFW

)rganization

Confederated Tribes and Bands of the Yakama Indian Nation, Department of Natural Resources Comment 1

The Yangman Nation has a variety of concerns with the DEIS as released by your office. The greatest concern we have revolves around in-water disposal. It appears that there is inadequate information and analysis conducted to reach the conclusion that in-water disposal will benefit fish and other biological organisms. There is a strong possibility that the preferred alternative will cause serious fram to listed species and trust resources. Wille we support the Corps' intent to benefit the natural environment, the preferred alternative, which would create shallow water tablaint, it is not supported by sound science. While the referenced study may have shown a correlation between existing shallow water habitat and salmonid use, it appears that the Corps is overreaching in utilizing this as a basis for in-water disposal in the DEIS.

Response

Numerous scientists from federal, state, university and tribal agencies set up the study design in 1987. These agencies include the U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, National Marine Fisheries Service, ESSA, Battelle-PNNL, Washington Department of Fisheries, Oregon Department of Fisheries, Oregon Department of Fisheries, Gregon Department of Fisheries, Iniversity of Idaho, University of Washington, Organ State University, and the Yakima (now Yakama) Indian Nation. The researcher involved with many of the studies was David Bennett, Ph.D., a tenured professor at the University of Idaho. With a multiple year study design, a lead researcher independent from the federal government, and a study design from the regions leading experts, the Corps believes that the science is sound. (Web et al 1987)

Organization

Confederated Tribes and Bands of the Yakama Indian Nation, Department of Natural Resources Comment 2

The Corps should also provide additional analysis of dredged material for contamination irrespective of the disposal option selected. There is evidence of sediment contamination created by the Hariford Project and elevated levels of mercury above Grand Cailee Dam. Dredging and redeposition of contaminated sediments will impact trust resources and ESA Isted species including fish and terrestrial species.

Respons

See response to the Columbia River Inter-Tribal Fish Commission's Comment 24.

Organization

Confederated Tribes and Bands of the Yakama Indian Nation, Department of Natural Resources Comment 3

The DEIS acknowledges that an alternative to dredging exists in controlling upland erosion. While the DEIS states this fact, there is no alternative including this as an option. The Council on Environmental Quality has explicitly stated in the Forty Most Asked Questions that agencies should include reasonable alternatives even though such alternatives may be outside the exking authority of the action agency. The control of upland sediment sources is a reasonable alternative to include given the long-term nature of the dredge progam contemplated in the DEIS. It is entirely conceivable that this alternative type approach could be implemented, but only if the action agency takes a first step towards considering it.

Response

Non-dredging and reduced dredging alternatives were considered in Sections 2.2.1-2.2.3 of the

Final DMMP/EIS

U.S. Army Corps of Engineers Walla Walla District

DMMP/EIS. The text in these sections has been revised to include an expanded discussion of why these measures would not adequately address the sedimentation problem in the five reservoirs. Reducing sediment generated by land use practices was considered, but would not eliminate the need for dredging. Although the Corps has no authority to change land use practices on non-Corps property, the Corps will use the Local Sediment Management Group to pursue possible modifications to land use practices. Sediment reduction alone will not solve the sedimentation problem.

Also See response to Comment 2.

Organization

Confederated Tribes and Bands of the Yakama Indian Nation, Department of Natural Resources Comment 4

We remind you that the USACE has a trust responsibility to the Yakama Nation.

Response

Comment noted

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District



COLUMBIA RIVER INTER-TRIBAL FISH COMMISSION 729 NE Organ, Fulz 240, Parland, Organ 77223 Fix 502 255 4225

Lt. Colonel Richard Wageneer Walls Walls District 201 North Third Avenue Corps of Engineers

Walls Walls, WA 99362

Environmental Protection Agency Region 10 South, Washington 98101 donal Administrator 1200 Sixth Aversus L. John lani

Final Communic on the Walla Walla District, Corps of Engineers and
Environmental Protection Agnery's Draft Drafts Mastrial Management Plan und
Environmental Impect Statument (DMMP/ELS) Environmental Americani fier the
laterite Lower Status, Chenwater and Mist-Colombia Rivers Dredging ë

Don Lt. Colonel Wegenam and Mr Iuni:

complete DEIS comments. The following comments reperted our preliminary DEIS comments submitted to the Corps on Jenury 7, 2002. Until the NEPA process is familized an authoritic "no-action" alternative, no dredging, must, by default, be implemented. We remind the Corps and EPA, that, as departments of the government of the United States, they have a true responsibility to protect and uphold treaty resources of the Columbia River Treaty subset. In these comments, we also include by reference Jenuary 18, 2002 DEIS comments by the Nez The Columbia River Inter-Tribal Fish Commission (CRITFC), 1 on behalf of its member triber, approclator the opportunity to review and provide final comments to the Walls Walls. District Draft Drodge Material Management Plan and Environmental impact Statement (DEES). We appreciate the extension of time until famuery 18, 2002 offered to CRITIC by the Corps to

General Comment

government to government crossitations between the Corps and HPA and CRUIFC's number tibes regarding proposed DEIS alternatives and polential actions. Committees it the blisteral decident number government between neverages that leads up to and includes a decision. EPA and making a decision about a preferred should preferred them in formal consolution at the policy-terel before making a decision about a preferred should present the final EIS (HEIS) and the Record of Decision (ROD). This is considered with EPA's haly 16, 2001 Region 10 Tibal Consolution Presentation and the Corps nationaries policy of conseniantes with Native American tribes. We concur with the January 18, 2002 comments of the Nez Powe Title regarding

Part Lower Sanks River Deedging Comments

CRUTPC submitted formed comments opposing Corps' drolging in the Lower States River on June 4, 1992 (Strute 1992, Strute 1992). Among other faings, CRUTPC monommented that the Corps, in cooperation with the USFWE and the Columbia Begin First and Wildlife Ambarity (CBFWA) survey the site and evaluate impacts to known fall chinook approximate. The Corps protected with this designing even though ESA-listed States River fall chinook airclaims were found in the debuging spoils.

In 1997, the Copps, using an environmental assessment, again proceeded with dredging 500,000 cubic yards of sediment in the Lower Stude River in again proceeded with dredging that the tase, the UEFWS joined CRITFC in recommending that 1) the water disposal of dredging apolls discounted the fact that the Lower Stude of the wree sediment of pre-considered spools at the Part of White and Subschool or the considered or considered or considered or commended that the Part of White and Sydness and Sydness is sediment on the proposed recommended that the Copy in Information or the proposed dredging and in the meetings, secondarded that the Copy information on the proposed dredging and in the meetings, secondarded that the Copy information on the proposed strain alternative so included that the Copy information of the proposed strain alternative an incidence environmental suscenced. Other try issues for CRITFC included 1) an incidence of sediment disposal ander the various alternatives, and 3) knadequate examination of the costs of alternatives, and 3) knadequate examination of

On November 11, 2000 CRITEC commented as the Corps' Corps' Brainmanhal Assessment and drief Prioding of No Significant Impact (DFONSI) for the Interim Lower Seales, Clearwater and Mid-Columbia Rivers Dredging (EA). We strongly ancouraged the Corps to complete an environmental impact statement prior to making a final decision on an alternative. We called a series of issues regarding impacts to federal environmental strandscrip, ESA listed selected and treaty fisheries that were previously reised in other comments.

DEIS Alternatives

We appraciase the either the Corps and EPA have shown in constructing a draft environmental impact subminers on potential dreigning actions that could impact resources for suary decades to come. With seapers to the DEIS, CRUFC finds the Corps and EPA have raised

[•] CRITIC was enound in 1977 by the Nor Purre Titles, the Confidenced Titles of the Unmille Indian Reservation, the Collectement Titles of the Wests Springs Reservation of Compute and the Volume Nation. The portexting body of CRITIC is compared of the first and wildlife count them at its meader whose. Therefore and subsequentially those streams and first also given the provings, working and adjustices, backets for machinesses the are of critical importances to the tables. CRITIC provides technical and legal support to the miles to carry out those goals.

Best Available Copy

a similar series of facts regarding the impacts of treaty and cultural resources as in the 1992, 1997 and 2000 Lower Study dredging cardinamental assessments. These include the following:

All four DEIS alternatives involve active dradging of the Lower State River and Medvlay bool. We are sensore as to what the scoping for this DEIS unselled, however, other alternatives should have been considered for analysis and about the included in a Final BIS. One of these are actions to final sections in mark since River such as land conservation include to reduce sections in fact the reduces the first layer.

Another alternative that should be included in a final HIS (FEIS) is the breaching of the four Lower Snake damp. The NMFS 2000 FCRPS Section 7 Biological Opinion provides performance standards and chock in periods with the utleasts possibility of recommending that the Lower Snake darms and chock in periods with the utleasts possibility of recommending that shake our standards as the character of the Lower Snake darms and chock-had. Given the historical for survival of Snake his five jivenile shame and standards will not be uset and the deam may be breached. Further, CRITFC views that alternatives 2.3 and 4 would involve irretivable consuminates of faderal finals to structures and activities that could, from a cost fally analyzed in the FEIS.

Section 2.2.2 of the DEES contemplates reservely drawdown to accommodate Boods, and offers an enalysis claiming that under an operation of and 773, the confliance of the Sanks and Cearwane Rivers would cause Lower Cramits pool elevations in a beavy flood event as the about and 134. But the DEES does not offer a lond event analysis if the pool were drawn down below and 734 flutting the event. The temporary derawlown of Lower Grazile pool was drawn down below and 734 flutting the event. The temporary derawlown of Lower Grazile pool to and 730 (apliformy creat) in 1992 demonstrated that falls operation can be accomplished without impacting furtions operation and even achie salmon passages since a fow level flattway outlet was available on the quarkers and electronic of temporarily drawing observation and EPA should include an analysis and electrateries of temporarily drawing observed forms of temporarily drawing observed forms of temporarily drawing observed forms on the large amount of sediments in the confluence and through the pool and downstram, thus, familiaring navigation in the long true.

The DEIS locks an authoritic, "no action," alternative, where no drudging would occue and occue and occue and occue and occue actions would take place to facure navigation is melinishing. Versets with lighter loads could still navigate the Lower Stade River without melinishing the savigation channel at a specific depth. We understand that the Corps is surfacing by Congress to provide manipation but we don't believe this means maintaining an explicit 14 foot depth.

9

Socioeconomic and Columni Resource Impacts

With respect to socioeconomic impacts from DEIS alternatives, Section 3.14.3 of the DEIS mentions the Mayer Resources (1999) mealysis which describes the transfer of river wealth from tribal communities from the communities from Corps actions socks a building and operating the Lower State dums and suscribed extribles such as dregating for navigation. However, Appendix C, Economic Analysis in the DEIS fails to describe, and such tes analyze, the contributing said cumulative impacts of the four alternatives in the DEIS for tribal communities.

2

using methods and data described in Meyer Resources (1999). This is a significant failing in the DEIS because the nondemonstrative fractions of the four alternatives are not defined as relationship to conceauch tempers to trible communities. The deficiency mass be recolved by including each or seasoly as to the ELS and analyzing the authorite, 'too exists' niternative ageiner the structure and nations described in Meyer Resources (1999) and CHZ M. Hill (1999). The DEIS fails to note that the proposed described will contains to impact twarty and cultural resources. Loss of tribal wealth from the river has resulted in disproported are stated to most think of containing to privaty and mortality to tribal contamnities compared to mostativel communities.

With respect to tithal cultural resources, the DEES leader impacts from the four alternatives to recheological resources. The health and shendance of standardscene fifth, familiaring salmon, standards, Facilia leaguesy and stratgens are also critical with cultural resources and larve bers since time immensively. The FEIS should contain the Halague between these fish populations, and that fish an unfer the fiber shemains and other pressined in these comments with third cultural resources. The PEIS must examine the fishes of Farthornments Farther with third cultural resources. The PEIS must examine the fishes of Farthornments Farther with

Specific Courses

- Section 2.2.4 describes that mechanical drudging and some degree of hydraulic drugging would be stillised. This action will make high levels of tarbidity and redistribution of tarbic tentimusily into the water column.
- The DELB preferred alternatives 1.2 and 4 programs in-water disposal, because
 14 spland disposal is too costly. Radistribution of insores tooks into the water
 column from dradged sediments is not adequately addressed in the DEIS.
- The DELS proposes designing in probable fall chicoole agerning areas in the sultrates of Lower Gentles and Lower Monumental dean. Deviging of these areas distarted and killed lased fall chimoole alerines in 1992.
- 16 The DELS inconverty states that there will be little risk to anadormous fish chains double declare they will not be present during the sativity. Life history and surjects from WDFW indicates that a high proportion of invenile fall chinook overwinter in Lower Scales River reservoirs and will be succeptible to chedging respects.
- 17 * The DEIS declares that the cost and the time required for upland disposal is too great, therefore, in-river disposal, despite impacts, is appropriate. The DEIS must consider environmental impacts as well as cost and time featibility.
- 18 The proposed alternative has not been plosed as context with the NAUPS 2000 PCRPS Biological Options. The Options calls for algorificant improvements to oritical pain near habiture and juvenile and eaths sharper and each sharper on a forther in the proposed adversarity is columne to these objectives that the federal service. The proposed adversarity is columne to these objectives that the federal service.

resources. Further, the NAGTS Opinion coils for consideration of beneating the four lower States Dense if performance standards are not mat. Given survival of listed Soulce River javenile seedband as only 25% to 2001, it is likely that parformance stensiands at 2005 may not be met and beneating must be considered.

The proposed alternative has not been considered from an ecosystem or normative of wer prespective (Williams et al. 1996). Dradging will continue to degrade oritical habitet necessing to expend life history and trophic diversity.

19

Alternative Actions. It appears that an authoria, "No Actions" alternative is feasible, and that barge operators would simply have to lighten their looks to prevent governible. The DRIS fails to describe the norst subsidies to the Ports and manigation indicatry under the four druging alternatives. These costs will be borne by the American taxpayer. The PDS should stadyes the rost of other temporation methods for rail or truck) that, if subsidized as the four dredging alternatives, may be less expensive than the dredging alternatives.

20

Dredging with its water disponal alternative. These appears to be no finable way that all said mend can be segregated for dispone for surveyer disponal. The Corys is proposing to monitor the movement of the sediment albert it is placed, with no prior hydraulic geometry, where ovelention, or sessenaces of how floot and and and will be rediscributed by river flows and anyightion waves.

71

he DEES claims that deposition at develoing spoil can crass critical salmon habitut. Bennet et al. (1991) noted that two years after develop disposal, three was a four to five-fold lorge, loval of eligedance homes as dwelge disposal three was Higher extend to Oligedinate propulations are indicative of good water quality and provide a better authiest sources for feeding salmonists than chiroconicle, which twin to colonize formed fiver habitat (UNFW 3.2007, This loss of discusity and lowered levels of secondary productivity ladicates a loss of critical salmonid habitat that will be exacurband with more dredging. Bonnett et al. (1991) also moted that steelhand indices were much higher for undisturbed river channel sites than after where dredging spoils were placed. The only twin all where sampleed were not found was a dought spoils were placed. The only twin all where smallhed were than the transit sites than the dredging spoils were placed. The only twin all where smallhed were not found was a dought singeonal site. Section 2.2.4.1 of the DEES stans that at moch at 10% of subyearling fall chicook came from dredging spoils were given dredging spoils were placed. This should be included in the FEES.

See 22

2.3 • Pointfiel i water column impacts from designing include increased includity, increased corpus demand and releases of constituents including specific texts, or satisfaint and interesting [Allen and Harry 1980]. Turbuilly sad resuspension and manager prominisments, typically court at the deciging size by (Allen and Harry 1980). Turbuilly sad resuspension underwest carriers, arrigation wower, and continued maintranance dreading (Allen and Harry 1980).

See 17 • Uplend dispusal. This alternative offices the least impact to the aquatic blots and matching and fails, yet the Corps adjusts the abstractive brand upon cost and since to implement.

See 23 • Water quality. Lioyd (1997), Newcombe and MacDounid (1991) and Alben and Hardy (1990) report dust ligh levels of articity fast out be caused by dredging, will come impact to selected such as stress, to avaidance and direct mortality.

Com review of the tonic tenhanat energies indicates that organic and inorganic continuous broadcast that organic and inorganic continuous between column. We believe that the curvant amples are installation to make continuous about taxic agreed from dredging activity. Indicat, DHS Society 3.9.1.2.7 notice that means taxificial activity. Indicat, DHS Society and A. J. Deles that means taxificial and the means taxificial activity. Indicat, DHS Society are an act available when the dredging is proposed, the may information that is arriable, for a 1973 proposed dredging that the first that more taxification in 1973 and activities since 1972. It is official that there are no margined, the samples considered,

24

The flutars of the Postatch Mill in-stwer disposal of tention into the Clearwater

River and Lower Granise pool and these tention being continually carraited in the

river from the fight.

It is a light flutar lines not addressed in the DEIS. This is a key

cumulative affects taken that must be addressed in the PEIS.

The impact of a staw of toric and organic and jacquaic communicant being entrained tato the water column by the proposed initial dredging and reditional finite in the surface motionment places salmonid populations at itsi. Farring (1959) notes that the organ becommunical medication and electrical transformations, tooles on communication to breat an editional transformation, tooles on wrate column. The impacts of these contaminates on he over, consiste discontaining mentality. However, they can also be substituted in precising the shiftly of arguments of these contaminates on he over, consiste discontaining to enablity of appropriate to surface the shiftly of productors. These impacts included in circusas in areas, loss of productors, loss of estaboling and swimming ability necessary to avoid disconsis from impacts demonstrating a billy necessary to avoid disconsis from impacts demonstration expeditive and lowered ensistence to described in the FRIS.

0

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See 16

2000), in state stadying smaller, noted that one third of the paterning accounts to voice we also General Renaire and Lower Cherwaier Rivers were from presenting accounts the General Renaire and Lower Cherwaier Rivers were from prevailer that over the desire of the paterning accounts to the Lower Beaulto reservoirs. The determination that thate fith named and over welcared in the Lower Beaulto newarylot is famed upon EPIT-IA. detections of all chinoric flats ordinates above Lower Cherabe that out algories or yearlings (Contant 1997) in USFWE 2000). Further, there are likely to be adult strainfage for the chinality of the proposed dendings give, because injurities on adult maniers of meditary to be adult the dame (Contan 1997) in December, and atthough official counts are not indicated by the Contan Evertual and established the dame of reservoirs in February. Further, jewestle spring advisored begin indignations through the state received the exposed to proposed dending impacts (WEEW V 1996-2000). These intenses also delinessed in the FRIES.

27

Concinuon

CRITIC approximate the opportunity to provide finel comments on amountaint, we builting that the DEIS has failed to consider an unfantuative value CRITIC strongly endoness. Curvet DEIS alternatives to dam broaching alternative would require an installarity at the test that could projecte a first jarable that the test for the test filter to consider days form of Lower Canai alternative for flood protection, and has felled to consider the tages upon tribal socioeconomies and culture.

There are a number of toxic lasses and their impacts on anad proposed dredging sites not are then salmon in the vicinity of proposed de NAMES 2000 PCRPS B

28

me of the foregoing issues, we builowe that sub-Corps complete the FEIR. Until that time and ing settions will be misen. Should you know que Bob Heimis at (503) 731-1219.

Moremone

Alban, K.O. and J.W. Einrey. 1990. Largants of northesional designing on fish and withlish: a Bitentiare serienc. Offices of Biological Services. United States Fish and Wildlife Service. Washington, D.C. Arkouts, M.R., and six eccentrors. 1992. Increased manufallity of forestie chimost subnon from a nontembrosed estuary to Pibrio seguilierum. Tennections of the American Fabishies Society. 127:360-374. Bennett, D.H., J.A. Chandler and G. Chandler. 1991. Lower Granite Reservair-in vater depoted test. To Walls Walls Dietelet Cope of Engineen. By Department of Fish and Wildlike Researces. University of Salato, bloncow, Idako.

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Ewing, R.D. 1999, Dicalerating returns: subness declies and particides. Oragon Purincies Education Network. Lloyd, D.S., 1987. Turbidity as a water quality standard for salmonid labians in Abeta. Worth American fournal of Figurales Managament. 7:34-45.

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Strong, T. 1992b. August 6, 1992 consuscate to Lt. Colonel R.D. Volte on Walls Walls District PONNS for the Environmental Assessment and Supplemental Biological Assessment the additional distinguish of a burga-branchet approach channel to the Permanent Investile Flab Facility at Lover Monumental Lock and Dam. Columbia Biver Inner-Titus Fish Commission. Perfund, Oregon.

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Columbia River Inter-Tribal Fish Commission

The following comments supersede our preliminary DEIS comments submitted to the Corps on January 7, 2002. Until the NEPA process is finalized an authentic "no-action" alternative, nodredging, must, by default, be implemented

the DMMP/EIS has been signed. Should an emergency situation arise, the Corps could perform The Corps does not plan to dredge under normal circumstances until the Record of Decision for imited dredging prior to or concurrent with NEPA compliance. Response

Organization

Columbia River Inter-Tribal Fish Commission

Comment 2

We remind the Corps and EPA, that, as department of the government of the United States, they have a trust responsibility to protect and uphold treaty resources of the Columbia River Treaty

Response

Your comment is noted.

Columbia River Inter-Tribal Fish Commission

Comment 3

We concur with the January 18, 2002 comments of the Nez Perce Tribe regarding government-toabout a preferred alternative in the final EIS (FEIS) and the Record of Decision (ROD). This is consistent with EPA's July 16, 2001 Region 10 Tribal Consultation Framework and the Corps proposed DELS alternatives and potential actions. Consultation is the bilateral decision making government consultations between the Corps and EPA and CRIFIC's member tribes regarding process between sovereigns that leads up to and included a decision. EPA and the Corps must engage our member tribes in formal consultation at the policy level before making a decision nationwide policy of consultation with Native American tribes.

The Corps is continuing with Government-to-Government consultation with the Tribes and intends to complete the consultation prior to signing the Record of Decision.

Columbia River Inter-Tribal Fish Commission

Comment 4

All four DEIS alternaives involve activedredging of the Lower Snake River and McNary Pool. We are unsure as to what the scoping for this DEIS entailed, however, other alternatives should have been considered for analysis and should be included in a Final EIS.

DMMP/EIS for a description of the scoping and public involvement process, including concerns All alternatives identified during the scoping process were evaluated. See Section 6.1 of the offered and issues raised through the scoping process.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Columbia River Inter-Tribal Fish Commission

Comment 5

One of these (additional alternatives that should be analyzed) are actions to limit sediment input into the Lower Snake River such as land conservation methods to reduce sediment influxes into the river.

Reducing sediment input from the Snake River watershed was considered. However, it would not preclude the need to dredge periodically. The Corps plans work through the Local Sediment Management Group to encourage land use managers to adopt practices that would reduce sediment input.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 6

Snake dams are breached. Given the historical low survival rate of Snake River juvenile salmon and steelhead in 2001, it is likely that performance standards will not be met and the dams may commitment of federal funds to structures and alternatives that could, from a cost perspective, be breached. Further, CRIFC views that alternatives 2, 3, and 4 would involve irretrievable standards and check in periods with the ultimate possibility of recommending that the Lower snother alternative that should be included in a final EIS (FEIS) is the breaching of the four rejudice dam breaching in the future. Thus, this alternative should be fully analyzed in the Lower Snake dams. The NMFS 2000 Section 7 Biological Opinion provides performance

Response

(LSRJSMFS) and this DMMP is detailed in Section 1.6 of the DMMP/EIS. Breaching the four Congressionally authorized navigation on the lower Snake River, therefore that alternative was DMMP/EIS would not prejudice possible dam breaching in the future. The LSRJSMFS can be The relationship between the Lower Snake River Juvenile Salmon Migration Feasibility Study not included in this DMMP/EIS. The LSRJSMFS did evaluate breaching and its findings are incorporated by reference. Selection of any of the four viable alternatives presented in the lower Snake River dams would not meet the project purpose and need of maintaining found on the Corps' website: www.nww.usace.army.mil/lsr/.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 7

under flood flows would also serve to move large amounts of sediments in the confluence area Thus we believe the Corps and EPA should include an analysis and alternative of temporarily drawing down of Lower Granite Pool to msl 710 in the FEIS. We believe that this operation through the pool and downstream, thus, facilitating navigation in the long run.

Response

Drawing down the Lower Granite Pool to 710 msl has been discussed and analyzed by the Corps and NMFS. The NMFS 2000 Biological Opinion on the Federal Columbia River Power System

Final DMMP/EIS July 2002

Appendix O
Response to Comments

discusses minimum operating pool (MOP). The Reasonable and Prudent Alternatives (RPA) call Once adult salmon begin to return, the pools at three of the four dams are refilled to meet the fish velocity through these four dams and thus decrease the travel time of migrating juvenile salmon. ladder gate depth criteria for adult salmon passage. The pool at Lower Granite Dam is kept at for operation of all four lower Snake River dams at MOP from April 3 until adult fall chinook salmon begin to enter the Snake River (usually in early September). This is to increase water MOP levels, however, until November 15, after natural cooling has taken place. In particular, while the Corps may operate the dam reservoirs of the four lower Snake River dams was an express purpose of Congress when the dams were authorized. Operating the dams below Moreover, operation of the dams below MOP, at the wrong time of year, has substantial adverse contains a system of locks that allows for boat traffic up and down the lower Snake River. This into conflict with other statutory uses that the dams serve. For example, each of the four dams between full pool and MOP, the Corps may not operate the dams below MOP without coming MOP would prevent the largest barges for which the dans were designed from passing. impacts upon salmon migration.

Also, see response to Washington Department of Fish and Wildlife's comment 2.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 8

The DEIS lacks an authentic, "no action" alternative, where no dredging would occur and oher actions would take place to ensure navigation is maintained. Vessels with lighter loads could still navigate the lower Snake River without maintaining the navigation channel at a specific

The Corps is using the interpretation of "no action" as "no change" from the current management The Corps also evaluated non-dredging methods to address the sedimentation problem, but none "NEPA's Forty Most Asked Questions". See Response to Save our Wild Salmon's comment 6. direction. This interpretation is described in the Council on Environmental Quality publication of them were totally effective is addressing the problem. See also response Save our Wild Salmon's comment 29 regarding the feasibility of light-loading barges in lieu of dredging.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 9

We understand that the Corps is authorized by Congress to provide avigation but we don't believe this means maintaining an explicit 14 foot depth.

Response

Your comment is noted.

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

Organization

Columbia River Inter-Tribal Fish Commission

Comment 10

using methods and data described in Meyer Resources (1999). This is a significant falling in the DEIS because the socioeconomic impacts of the four alternatives are not defined in relationship Appendix C, Economic Amlysis in the DEIS fails to describe, and much less analyze, the continuing and cumulative impacts of the four alternatives in the DEIS on tribal communities to economic impacts to tribal communities.

Response

terms of: 1) tribal ceremonial, subsistence, and commercial harvests of salmon and steelhead; and analysis is incorporated by reference. Although the analytical methods used in this FEIS to determine the cumulative impacts of the alternatives to tribal communities are different from Mr. regard to beneficial effects to salmon, estimated time of removal of salmon from the Endangered Meyer's methods, the DMMP/EIS adequately considered and analyzed the impacts (see Sections analysis of salmon recovery and harvest levels presented in the Tribal Circumstances report are With regard to the Meyer Resources (1999) report it assesses impacts to tribal circumstances in Species List, and other related issues. The Meyer Resources report can be found on the Walla 2) tribal access to flooded lands valuable to tribes. The report also discusses tribal views with based on preliminary numbers, as noted in the Lower Snake River Juvenile Salmon Migration Feasibility Report/Environmental Impact Statement, Section 5.8-1. The LSR evaluations and Walla District website linked to the LSR information (www.nww.usacc.army.mil/lsr). The 1.14 and 4.15).

Columbia River Inter-Tribal Fish Commission

Comment 11

steelhead, Pacific lamprey and sturgeon are also critical tribal cultural resources and have been With respect to tribal cultural resources, the DEIS limits impacts from the four alernatives to since time immemorial. The FEIS should contain the linkages between these fish populations, archaeological resources. The health and abundance of unadromous fish, including salmon, and their Jate under the four alternatives and others presented in these comments with tribal cultural resources.

American communities both as a food source and as a spiritual and cultural resource. However, based on the analysis of the environmental impacts of the DMMP alternatives and consultations with resource agencies, significant adverse effects on aquatic resources, including salmon and The Corps acknowledges the importance of the Columbia/Snake River fishery to Native steelhead, are not anticipated to result from the proposed action.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 12

The FEIS must examine the issue of Environmental Justice with respect to all alternatives malyzed.

The draft DMIMP/DEIS concluded that none of the alternatives considered in detail would cause a disproportionately high and adverse effect on low-income or minority populations in the area.

Final DMMP/EIS

July 2002

Walla Walla District U.S. Army Corps of Engineers

ppendix 0 Response to Comments

fishing or down river fishing. The four alternatives considered in detail, including the no action Furthermore, no alternative considered in detail would cause greater adverse impacts on local alternative, would have indirect, minor, short-term effects on aquatic species. Two of the four alternatives, including the preferred alternative, would provide potential beneficial effects to aquatic resources through the implementation of beneficial uses of dredged material, such as creation of woody riparian habitat and/or shallow water fish habitat.

most of the impacts that would be likely to occur, the Corps concluded in the Draft DMMP/EIS Given the fact that no substantial adverse impacts are anticipated, and the dispersed nature of demographic group in the project area. The discussion of environmental justice analysis is that impacts would not be likely to be high, adverse, nor fall disproportionately on any presented in greater detail in Section 4.6 of the Final DMMP/EIS. The DMMP/EIS alternatives were considered in detail to determine their specific impacts, the alternatives, and the one recommended, would not disproportionately adversely affect lowincome, minority populations, sport fishing activities, or commercial fishing activities.

Columbia River Inter-Tribal Fish Commission

Comment 13

Section 2.2.4 describes that mechanical dreaging and some degree of hydraulic dreaging would be utilized. This action will cause high levels of turbidity and redistribution of toxics continually into the water column.

constituents from sediments into water. Site-specific sampling data and monitoring plans will be implementation of the DMMP, the dredged material evaluation framework will guide evaluation reviewed by appropriate water quality regulatory agencies prior to dredging as part of the Clean of the potential water quality impacts for dredging and dredged material management activities. A sampling analysis plan and monitoring plan will be developed for each individual dredging Increases in turbidity due to dredging are expected to be bealized to the immediate area of the dredging and disposal activities, and be limited to the duration of the dredging project. During project. Prior to dredging, sediments to be dredged will be sampled and analyzed for grain size evaluated when planning for future dredging projects within in the 20-year period. Monitoring monitoring plan, which will be implemented to minimize impacts to downstream water quality distribution and selected chemical constituents. Results will be used to develop a site-specific Water Act 401 certification process. Information gathered during each dredging activity will Monitoring will include turbidity, ammonia, temperature, and pH, along with other chemical conducted by the Corps during previous dredging and disposal activities has indicated that constituents if sediment sampling results indicate potential for partitioning of chemical turbidity levels do not exceed state requirements.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 14

Redistribution of known toxics into the water column from dredged sediments is not adequately addressed in the DEIS.

Response

Final DMMP/EIS

U.S. Army Corps of Engineers

Columbia River Inter-Tribal Fish Commission

Comment 15

owerhouse, however, not on the navigation lock side of the river. All dredging in the tailrace of believed that the velocities on the navigation lock side of the river in this location are insufficient The NMFS Biological Opinion (2000) indicates, in section VII.C.1.3., the Corps will not dredge for attracting fish to spawn in these locations. Multiple years of survey occurred after 1992 and The DEIS proposes dredging in probable fall chinook spawning area in the tailraces of Lower Granite and Lower Monumental dams. Dredging of these areas disturbed and killed listed fall no redds were ever found again downstream from Lower Monumental Dam (Dauble et al 1998). Lower Monumental Dam covered under the DMMP will occur in the navigation channel. It is Eggs and alevins were discovered while dredging in front of the Juvenile Fish Facility and in the tailraces of the dam until redd surveys have been completed (Appendix F). chinook alevins in 1992.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 16

because they will not be presentduring the activity. Life history analyses from WDFW indicates that a high proportion of juvenile fall chinook overwinter in lower Snake River reservoirs and the DEIS incorrectly states that there will be little risk to anadronous fish during dredging will be susceptible to dredging impacts.

during the summer as subyearlings. (Tiffan et al. 2001). According to Williams and Bjornn 1998, Fall chinook typically have an ocean type rearing life history and typically outmigrate seaward overwintered and migrated seaward as yearlings in spring was small and did not effect survival "A small proportion of hatchery and natural subyearling fall chinook salmon residualized and estimates." This indicates that a small proportion of fall chinook may over winter every year. Despite this, the draft DMMP/EIS states in Appendix F that proposed activities are likely to adversely affect fall chinook salmon by dredging. NMFS' Biological Opinion is included in migrated early in spring 1997; however, as with fish released in 1995, the number that Appendix F.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 17

river disposal, despite impacts is appropriate. The DEIS must consider environmental impacts as The DEIS declares that the cost and time required for upland disposal is too great, therefore, inwell as cost and time feasibility.

Response

The DMMP/EIS does consider environmental impacts of the upland disposal alternative (see Section 4; Table 4-1 presents a surrarary of environmental impacts of each alternative). The

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

Federal environmental standards. In their Biological Opinion (2000), the NMFS has indicated riparian habitat along the shoreline. It is the Corps' policy to dispose of dredged material in a benefit as in-river disposal to create juvenile fall chinook rearing habitat or creation of woody Corps has determined the upland disposal alternative would not have as much environmental manner that is the least costly, is consistent with sound engineering practice, and that meets support for the in-water disposal and riparian habitat creation as proposed.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 18

The proposed alternative has not been placed in context with the NMFS 2000 FCRPS Biological

to create significant mainstem habitat improvements. The Biological Opinion Action 155, which evaluating the results. For this project, the Corps has met the baseline data gathering and is now Woody Riparian Habitat Program through the Lower Snake River Compensation Plan, is meant habitat, is consistent with the NMFS Biological Opinion (2000). This, in combination with the uncertainties by collecting baseline data, improving mainstem reaches in ways that mimic the range and the diversity of historic habitat conditions as much as possible, and monitoring and On the contrary, creating habitat in the mainstem river, where there is currently none or poor states "BPA, working with the Corps will take immediate steps to begin to address these attempting to mimic the habitat that was in place prior to the hydrosystem completion.

Organization

Columbia River Inter-Tribal Fish Commission

The proposed alternative has not been considered from an ecosystem or normative river perspective (Williams et al. 1996). Dredging will continue to degrade critical habitat necessary to expand life history and trophic diversity.

sandy material, but because it is typically in the thalweg (main flow) of the channel, it is less used the Corps is attempting to create habitat diversity within the reservoir in an attempt to mimic what Dredging the mainstem Snake River in the confluence area and at Schultz Bar is meant to remove study backwater areas targeted for dredging and determine the spatial and temporal distributions The NMFS Biological Opinion (Appendix F) addresses this issue and states "the [Corps] would by rearing and migrating fish. Restoring the navigation channel at some locations, from 12 feet In proposing to alter habitat in the reservoir from little to more shallow water shoreline habitat, deep to up to 16 feet deep in a 250-foot wide channel, is not expected to change the hydraulics intakes, etc., which are primarily composed of silt, is not expected to impact salmonid habitat. of rearing salmonids, as well as identify key habitat attributes that explain the distributions." was there before the hydrosystem. Dredging backwater areas such as boat basins, irrigation sufficiently to alter fish use of the area in the future

Organization Columbia River Inter-Tribal Fish Commission

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

Comment 20

The DEIS fails to describe the costs subsidies to the Ports and navigation industry under the four dredging afternatives. The FEIS should analyze the cost of other transportation methods (i.e. rail or truck) that, if subsidzed as the four dredging alternatives, may be less expensive than the dredging alternatives.

nearly all of these rates, some more than others. The methodology used in this DMMP/DEIS and Section 7a of the Department of Transportation (DOT) Act of 1966 (Public Law 89-670) requires the use of prevailing rates in determining the feasibility of Federal inland navigation projects. In transportation including barge, rail and truck. These comparisons depend on published rates or E S method to determine a navigation project's feasibility involves the comparison of the cost of negonated rates prevailing at the time of the study. Federal funding or subsidy is reflected in hat prescribed for Congressional authorization of inland waterway navigation improvements competitive similar rates are the best available approximation of long-run marginal costs. transporting the goods and commodities to and from the study area by various modes of the case of existing waterways such as the Columbia-Snake River waterway, prevailing does not use rates under Federal funding parity.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 21

or assurance of how fines and sand will be redistributed by the river flows and navigation waves. movement of the sediment after it is placed, with no prior hydraulic geometry, other evaluation, Dredging with in-water disposal alternative. There appears to be no Jeasible way that silt and sand can be segregated for discrete in-water disposal. The Corps is proposing to monitor the

determine which dredging areas are mostly silt and which areas are mostly sand and larger-sized sediments. Prior to any dredging, samples will be collected and analyzed for physical characteristics per Appendix J (Dredged Material Evaluation Framework) of the DMIMP/EIS. For the initial dredge projects, applicable components of the Lower Columbia Sediment Evaluation Framework will be used to determine if materials to be dredged are suitable for inarticle size analysis performed as part of the pre-dredging sediment sampling helps the Corps water disposal. Only materials not exceeding 30% silt will be allowed for in-water disposal.

sediments out of the water column. Monttoring during and after dredging will verify the stability proposed locations for in-water disposal are areas where sediments tend to settle out of the water caused by passing traffic on the river may cause some localized movement of materials, but the Sediment data collected from the river have indicated that it is reasonable to assume that the column instead of being transported to other locations in the river. It is possible that waves locations will still tend to maintain velocities that are low enough to promote settlement of of created habitat areas, see DMMP/EIS Monitoring Plan (Appendix M).

Organization

Columbia River Inter-Tribal Fish Commission

Comment 22

Dredging impacts invertebrate production. The DEIS does not examine these impacts thowughly. Response

Final DMMP/EIS

July 2002

U.S. Army Corps of Engineer:

Response to Comments

evidence that the disturbance is long-term." (Allen and Hardy 1980) In addition, for 'new work' dredging (i.e., dredging of previously undisturbed river bottom) replacement fauna may take two Routine maintenance dredging causes short-term disruption of bottom faunas, but there is little years to repopulate an area. (Allen and Hardy 1980). Bennett et. al. (1995) reports: "increased benthic invertebrate abundance in disposal areas... benefits ... the (Lower Granite Reservoir) system." The proposed construction of shallow water benches is expected to create more invertebrate production and/or collection along the shorelines, where fall chinook rear as inveniles.

over a five-year time period leading up to the drawdown test in Lower Granite Reservoir (Bennett et. al. 1993). In addition, Curet 1993 reported that the most important food items to fall chinook et. al. 1993). areas, he demonstrated that the mid-depth disposal area took approximately four years to achieve Although Bennett et. al. (1991) indicated that the digochaete biomass was lower at the disposal in the reservoirs were Cladocerans, Ephemeropterans, Homopterans and Dipterans, composing parity with the reference stations. This is despite all benthic stocks showing decreasing trends 96% of their diets. Oligochaetes were not mentioned. Increasing shallow water habitats in the reservoir would actually increase habitat diversity on the larger scale.

Columbia River Inter-Tribal Fish Commission

Comment 23

demand and releases of contaminants including specific toxics, free sulfides and anmonia (Allen Potential water column impacts from dredging include increased turbidity, increased oxygen and Hardy 1980).

quality impacts are expected to be localized and temporary. See Response to comment 13 above. The DMMP/EIS acknowledges the likely water quality impacts that would result from dredging and dredged material management activities. However, increases in turbidity and other water

Columbia River Inter-Tribal Fish Commission

We believe that the current samples are insufficient to make conclusions about toxic spread from Comment 24

dredging activity.

for dredge sampling is contained in Appendix J (Dredged Material Evaluation Framework) of the contained in NMFS' Biological Opinion (2000) and the Monitoring Plan (Appendices F and M). regulatory requirements to protect water resources and fish and their habitat. The methodology DMMMP/EIS. Additional information concerning monitoring requirements during dredging is Existing sample analyses along with additional sampling prior to dredging would fulfill

Organization

Columbia River Inter-Tribal Fish Commission

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers

he future of the Potlatch Mill in-river disposal of toxics into the Clearwater River and Lower significant issue not addressed in the DEIS. This is a ky cumulative effects issue that must be Granite pool and these toxics being continually entrained in the river from dredging is a addressed in the FEIS.

The effects of industrial and municipal discharges to waterways in the project area are reflected in the water quality and sediment quality data that the Corps has used in developing and evaluating effects analysis. Regarding cumulative effects, the comment is correct in that future water quality throughout the project area have been considered in the evaluation of water and sediment quality. ignificant direct, indirect, or cumulative impacts are not anticipated to result from the proposed Section 4.15 of the DMMP/EIS has been revised to provide additional detail on the cumulative continue to sample and analyze sediments and use these dataset in the future. Based on the dredged material management alternatives (as documented in the DMMP). The Corps will permitting decisions for Potlach were not specifically discussed in the cumulative effects existing data and the regulatory history of dredging and dredged material management, analysis. However, the long-term effects of discharges from Potlach and other sources

Organization

Columbia River Inter-Tribal Fish Commission

water column by the proposed initial dredging and redisposal into the river environment places The impact of a stew of toxic and organic and inorganic contaminants being entrained into the slamonid populations at risk.

monitoring needed during dredging, and where the excavated materials will be relocated to, either analyses will evaluate the potential effects on salmonids and other potentially affected species and, if dredging can be done, will determine the dredging methodology, amount and type of Prior to any dredging, the proposed areas will be sampled and analyzed per the guidance of a dredged material evaluation framework. DMMP/EIS Section 3.9 presents a discussion of the status and applicability of the dredged material evaluation framework. The results of these in-water or on land.

Columbia River Inter-Tribal Fish Commission

Comment 27

Essential Fish Habitat. The DEIS fails to provide details on critical habitat surveys with respect to spawning steethead and fall chinook, and rearing areas for these species and spring and summer chinook. Surveys should be completed, in consultation with the tribes and state and federal fisheries agencies before dredging isfurther considered. The results of these surveys should be exhibited in the FEIS.

adversely affect fall chinook salmon. However, the Corps would be producing a long term benefit to these salmonids by creating rearing habitat. The Draft DMMP/EIS addresses Snake River behavior and life stages in the project area and indicates that proposed activities would likely These issues are addressed in the DIMMP in Appendix F. Appendix F outlines fall chinook

Final DMMP/EIS

U.S. Army Corps of Engineers

Basin steelhead on pages 48-50, covering behavior and life stages in the project area and determined that proposed activities would likely adversely affect juvenile fish by dredging, however, not likely adversely affect adult passage based on the type of dredging involved. In addition, the Draft DMMP/EIS addresses Stake River Basin Spring/Surmer-Run Chinook on pages 45-48 indicating that proposed activities are likely to adversely affect overwintering and rearing fish of these runs. Substrate surveys have indicated that most of the areas that will require dredging do not contain the adequate substrate size for spawning fall chinook and steelhead. This, in combination with the water velocities required for incubating redds, leaves only the tailraces of the dams as areas that were adequate for spawning. The NMFS Biological Opinion (2000) indicates, in section VII.C.1.3, the Corps will not dredge in the tailraces of the dam until redd surveys have been completed, as anticipated by the Corps (see Appendix F).

Organization

Columbia River Inter-Tribal Fish Commission

Comment 28

It is critical that the Walla Pfalla District and Region 10 conduct government to-government consultations with our member tribes regarding the DEIS and development of the FEIS and ROD.

Response
The Corps has initiated Government-to-Government consultation with the affected Tribes and

Final DMMP/EIS July 2002



Hoz Force

TRIBAL EXECUTIVE COMMITTEE

January 15, 2002

Department of the Army
Walls Walla District, Corps of Engineers
ATTN: Dredged Maserial Musagement Plan
201 North Third Avenue
Walla Walla, Washington 99362, 1876

RE: Draft Drodged Material Management Plan and Environmental Impact Statement, McNary Reservoir and Lover Snake River Reservoirs

To Whom it May Concern:

The Nex Perce Tribe appreciates the opportunity to comment on the draft Dredged Maragament Plan and Environmental Interest Statement (DAMAPRES). After reviewing this document, the Nex Perce Tribe has concluded that implementation of any of the alternatives presented in the clark DAMAPRES. Including the protected alternatives presented in the clark DAMAPRES. Including the protected alternatives provided the fishing resource, and so cause increased belong to species protected under the Endangered Species Act (ESA). In addition, such action would adversely impact federally and judicially confirmed meany rights of the Nex Perce Tribe.

In 1835, the United States nagotiated a treaty with the Nez Perce Title. Treaty of June 9, 1835, with the Nez Perce Title, 12 Saz. 957 (1835), in Anticle 3 of the Treaty, the Nez Perce Title explicitly reserved to themselves certain rights, including the exclusive right to bute fith in streams running through or bardering the Ruservation. "The right to fifth at all usual and accustomed places in common with the chizons of the Terrifory, and of erecting temporary buildings for curing, together with the privilege of hunting, gathering Trotes and percent and partition of the right to fifth within the project area identified in the draft DAMAPPELS, and the right to fifth within the project area identified in the draft Lower Snake River.

The Nez Perce Tribe has a treay-secured interest in these natural resource. This guaranteed right has repeatedly been recognized and reaffirmed by the federal courts. However, this guaranteed right is meaningless if the fishery and the habitat that supports the fishery is not protected and preserved.

Salmon are integral to the spiritual, physical, and economic health of the Nex Petrer. The The Thirb integrates the fashery and the waters that support if for the life and statistications these resources have given, and continue to provide Thirbal members. The Statis River conclude it an important superiors young for titusatened spring, summer, and full chinoods salmon, as well as stockheed fast. Adults use the Statio River to access, and sewring fasting the Chearwaiter Basin. Salmon and steakheed smolts use the same confider to return to the ocean. Any activides that potentially threaten these very important metawates are of great contains to the Tribe.

The Next Petros Trithe commands this Army Coops of Engineers (Corps) for their response in the draft DMAPPEES to nome of the concents raised in our November 13, 2000 commons on the Draft interim Lower Stutie, Cherwater, and Columbia Rivers Dredging Environmental Assessment. We also command their concern with habitat improvement and beneficial to so dredged material. Major concerns, though, armain regarding the proposed dredging plan alternatives, including the preferred alternative.

The following are the Nez Percs Tribe's comments. We also incorporate by reference the comments of the Columbia River Inter-Tribal Plan Commission.

General Comments

A. Budangered Species Act lanus

1. Critical Habitat

The draft DMMFPEES acknowledges that the project area is designated critical habitat for all four State River and McNary Reservoir are designated as critical habitat for migration passage of wild State River accitecy. The document site of the service are designated as critical habitat for migration passage of wild State River sockeys. The document site of the service and present, there is no deleterious impact to their habitat. The ESA, however, defines a destruction or advers modification to be a "direct or induced at lateration that diminisher the value of critical habitat for both the survival and recovery of a lateral appealer. State alterations include, has are not funded to, alteration adversaly modifying any those physical or critical habitat for both the survival and recovery of a lateral appealer to the alterations include, has are not funded to, alteration adversaly modifying any those physical or critical habitat is not a factor. The draft DMMPGES also extrowedges that critical habitat and EPH components suitable for potential resting or overvinating for State streng during the winter in-water work witcher and in November at the topocaed project areas during the winter in-water work witcher and any November at the death. These habitat components would be adversally affected by any dredging activities. The effect DMMFPEES does not give any information on critical habitat for fall chlasole or built trout. Impacts to critical habitat for faller provided.

Additionally, the druk DAMAPAES states that since dredging will only occur in the main mayigation channels that critical babitat areas near abone will not be impacted. Even if

those areas will not be directly impacted, they will be affected since the river is a system, and it is impossible to impact one area without also impacting nearly areas. Thus, the adverse impacts would be indirect ones, which are not allowed under the ESA.

2. Endangered Pick

The dust DMMINFEIS authanyledges that some adult steethead may be in the strust proposed for dredging and disponsed thriting proposed dredging predict. The stand midigation approach is to dredge when these species are lots likely to be prakent, and to see clausabled dredges, which are unlikely to entrain fifth. Both these approaches are indequaled to protect fifth. The dredging will release sediment and route ambatances that will adversely impact any fish that are present. Authough, fish do try to leave an area due to noise med other stigmall, this reaction cannot be counted on to assure that fish will not be directly harmed from the dredging even if entrainment does not occur.

The draft DMMPPRIS also states that the only known bull troot population in the project area, that in the Treamon River, is considered a healthy out, and an does not address possible harm to that species. It is important, though, that healthy populations of ESA-listed species be particularly protected since they are the basis for that species' recivery. Thus, notible impacts to Tucanon River bull from must be included in the draft DMMPPRIS.

The draft DMMPELS does not address possible harm to full chimook salmon, which have been observed overwinering in the project area. Sub-warting full chimook would be matkeulad't vulnerable to impacts from designing.

B. Urability of Dradged Material

The feasibility of all alternatives, particularly the preferred alternative (Alternative 4), defonds on the usability of the drodged material. Despite the statement in the draft DMMPRES that it is improbable that decided material would be even moderately confiaminated, the data on which that corollation is based is that from 1997 and 1998, it is highly likely that more recent data would show different results, especially in light of effluent from the Polistch plup and paper mill and agricultural runoff. Much of the not meet water quality standard. Thus, it would be manifolded for in-water disposal or other proposed deneticial lusts.

Furthermore, the draft DMMP/EIS does not give adequate information on how the issability of dredged material will be determined it states that whenever a load of dredged material visually looks like it may be contaminated, bests will be done. A visual stablysis, though, is for from being an adequate indication of the presence of contamination. Also, the draft DMMP/EIS does not state what analyses would be done on the material, nor the DAMP/FIEIS does not state what analyses would be done on the material, nor the DAMP/EIS of the dredged material into would be analyzed. Importantly, bow would the cost of these analyses impact the feasibility of the proposed alternatives?

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The Nez Perce Tribe concuss with the successment in the draft DMARP/EIS that upland disposal of deedged masserial will have adverse effects on servestrial wildlife. The Jose site is managed as a wildlife habiter management unit (HMI), act of the Chief Timothy site borders are HMI, Disposal at elident area would have harriful impacts on efforts to provide habites for wildlife. The misigation proposed in the draft DMARP/EIS (in Section 4.2.5) of purchasing new lend would not truly connecting to the DMARP/EIS (in Section would still be displaced, and there is no pusurance that the habites in the parthaged had would not truly connecting the last set parthaged had

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C. Creation of In-water Habitet for Flub

The draft DMARPEIS proposes the creation of studion-water habitat as a major disposal material and a prominent indigation measure. While the New Perce Tribie applicated the Corpt efforts to benefit against resource, there is a meable fact of this supplication to constitute the proposed construction of this labilitat will be table and lesting. River currents and high flows during spring musoff could easily evode any constructed abullots where table in, not only destroying the habitat itself, but also research aboving that macrotiversebal subjects, and this actually we such contracted analogy water tables. The Lower State River, which has soveral ESA-illared that appendent an appropriate place to experiment on construction of fish habitat. The Lower State River, which has soveral ESA-illared that species, is not subject the dredged material is misable for its river disposal, as stated shove.

D. Tribal Trus Responsibility and Government-to-Government Consulation

In Executive Order 13084, President Clinton provided that "such agency shall have an effective process to permit elected officials and other representatives of Indian tribul governments to provide menaligible and timely input in the development of regulatory policies on maters that significantly or uniquely silver their communitat. According to Praticies (Olsson's April 24, 1994 memorandum regarding Government to Government Resistant Clinton's April 24, 1994 memorant services and saces the resources and assume that Tribul Government, focken lagracies "shall assess the resources and assume that Tribul government rights and excivities, and activities on tribul brust the development of such plane; projects, proposals, and activities, and activities on tribul brust agencies must prescrively proper tribul interests, including those associated with tribul culture, religion, subsistence, and commerce. Consultation with Tribus is a vital component of this process.

Consultation is the formal process of negotisation, cooperation, and mutual decisionmaking between two soveraign nations: the Neg Perce Tribe and the United States.
Consultation is the process that ultimately leads to the development of a decision, not just all process or a means to an end. The most important component of consultation is the ultimate decision. Consultation does not mean notifying the Tribe that an action is proposed, requesting written comments on that prospective action, and then proceeding with the action.

13

The Corps has not complied with its own policy guidance on tribel trust and consultation in the preparation of the draft DMMPERS. This guidance states that the Corps will work note trust obligations, protect trust resources, and obtain tribal views of trust and treaty responsibilities or actions related to the Corps. Further, the pridance states that the Corps will reach out and involve tribes in collaborative processes to ensure information exchange and disparate viewpoints before and during decision making. The stage only addressed cultural resource issues, and was time-limited. Consultation was mitinated, but certainly not completed.

The Nex Perce Tribe requested an extension of the deadline for comments to that they would have adequate time to review the draft DMMPPISIS. The comment period was about, and spanned the Christmas and New Year's holidays. It was insufficient time for review of the nextensive documents comparising the draft DMMPPISIS, and obtaining the necessary approval of the comments by the Nex Percs Tribial Executive Committee. In response, the Corps required draft comments by the original comment deadline, only allowing eleven extra days, until January 18, 2001, for the final comments. This time. [imitation does not meet the spirit or letter of tribal compulsion requirements.

Additionally, the draft DMMP/BIS states that a Local Sediment Management Group (LSMG) has been formed, which will assist in the development and adoption of appropriate methods in the management of dradging and disposal of dredging materials. This group, locations that actions and actions related to dradging. The group, locations that actions related to dradging. The group, locations that actions related to dradging. The Tribes are among those groups the draft DMMP/BIS indicates will be asked to participate only on an as needed basis. All dradging and most of the disposal options for trady-preserved resources. Thus, under federal guidelines, including those of the Corps, consultation must take place with the Ner Perce Tribe.

E. Bavironmental Justice

A Presidential memorandum accompanying Executive order 12998 cites the NEPA process as an opportunity for agencies to address the environmental injustice of disproportionate impacts. Currendly, the Nez Perce Tribe harvests less than I percent of traditional animon that we have been a percent of traditional animon instructional rotat and betries are becoming increasingly mer. The decimation of salmon mus and the disappearance of other raditional foods have seriously imposed the Tribul economy. Today, Tribal members sace a poverty rate of salmont 30%, and winter unemployment rates of 62%. The dark DMMP/EIS finds that there are no disproportionate impacts of the project on the Nez Perce Tribe or its members. Any impacts on salmon, which all the ulternatives have, have a disproportionate impact of the project on the Nez Perce Tribe or its members. Any impacts on salmon, which all the ulternatives have, have a figure of the based of the current of this based on at 15.1) that the scalarities survey, and cannot be credibly used in the current sinustion. The statement (section 4.15) that no significant changes are aspected in water quality from toxic substances, if based on the data presented in the draft DMMP/PEIS,

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must be re-evaluated with more current data and in light of new, stricter train standards. The evaluation must also corelider human health impacts, and the increased impact on, tithal mornitors who constume greater quantities of fait.

F. Range of Altarnatives

17 The death DIMMPISIS does not present a reasonable mage of alternatives. NEPA provides that all federal agencies shall, to the fullest extent possible. It shall, develop, and describe agrophicals alternatives to recommended courses of action in any proposal which involves unresolved conflicts convening alternative uses of available resources." (9th Cir. 1992) ("ICL"): Parthermore, the existence of a violate successes." (9th Cir. 1992) ("ICL"): Parthermore, the existence of a violate but anexamined alternative renders as a substantianal impact statement inadequate. Citizens for a Briter Handermore, N. Hodel, 768 F.26 1051, 1057 (9th Cir. 1985).

Observative 1, which is presented as the so-action alternative, is not truly no-action, but usually corrected stands que management of the project man. A true no-action alternative is one in which digitals does not cover. Although the Corps states that the sediment needs to be ramoved from the navigation channel at the upstream and of Lower Grants Reservoir to provide for unvarietied navigational use, the New Perce Tribe believes that that cours in this state. The believes that that cours at this state. The DAMAPPINGS does not deading with the choosic assimnential that course at this state. The DAMAPPINGS does not provide as analysis that considers. Restock to the influence flows, not limiting navigation at some

Moreover, all the alternatives presented in the draft DMARPHEIS are dragging alternatives. It is shorts glade for the Corps to focus on only "end of the pipe solutions" rather than the sources of sediment loading. Although the DMARPHEIS states that the Corps does not have the sutherity to control land uses and land management practices in the visa majority of the wearshed, they could contribute the money used for dredging to spouse programs to address upland and streambank erroring moderns in the upper watershed. The Nez Perce Tabe bullows that the only reasonable, long-term solutions is to address upland and streambank reactions in the upper watershed. In these problems. The Corps should therefore, include an alternative that focuses on the internative that focuses of the draft DMARPHEIS currently includes alternative that focuses of draft DMARPHEIS currently includes alternatives the cooperation of other local, state, and federal agencies, and evelopment of this new alternative could also.

Importantly, the draft DeMAPIEIS does not consider breaching the four Lower Stake River dams in its alternatives. The Corps' recent decision not to breach was based only on saves of Juvenile fish ingration. There are additional economic and environmental considerations that need to be attended in particular, tweathigh Lower Granite Dam may be the only economically feasible dong-ours admitted to the problem of testiment actumisation and potential flooding of the City of Lewiston. It is highly probable that the proposed 3-foot lever ratio in the alternatives will prove inadequate within the next five

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to fifteen years. A further raise in the loves would likely prove extremely expensive since it would also entail raising bridges and addressing road infrastructure requirements.

Specific Comments

1.2 Purpose and Noad

provide for wildlife habitat planting integriod. This dredging is authorized by the River and Harbor Act of 1945 (Public Law 79-14). It is inclear from the dreft Divinipplies whether this inland navigation system/wherway can be supported without maintenance deciding. Although dredging is sutherized, it is not required, and so technically the Corporat not need to driving. navigation channel, remove sediment from port areas, provide for recreational use, and The Corps states that project purpose and need is to restore the authorized depth of the

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2.5.1 Alternative 1 - No Action (No Change) - Maintanance Drudging With In-Water Disposal

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The Nez Perce Tribe strongly objects to the No Change in Water Disposal alternative.
This alternative proposes removing sediment from the navigation channel, and disposing
of the dredged material at the deepwater disposal site. This is not an accordable
alternative as the removal and disposal of the sediment would cause negative impacts to
water quality, the benthes, and several RSA listed species. Bavironmental impacts could be widespread as several disposal sites would be required to accommodate the volume of dredged material.

2.5.3 Alternative 2 – Maintenance Drodging With Le-Water Dispensi to Crease Fish Habitas and a 3-Foot (4.9m) Lovee Raise

The Nex Perce Tribe is also opposed to Alternative 2. We have the same concerns about water quality as for Alternative 1. In addition, the Tribe has concern about the creation of fish habitat as expressed in the General Comments section, as well as the proposed levee raises and disposal process as described below.

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Section 2.5.2.2, Disposal Process: The draft DMMAPIEIS describes in detail the process of references or sources for the numbers given in the structure of that habins, nor its extens. further, the document states that the minimum surface area for shallow water habitet is suilding shallow water habitat for juvenile salmon. It does not, however, cite any four scres, but acknowledges that average pro-impoundment habitat was larget.

concerns that the proposed 3-foot leves rules will prove inackequate within the next five to fifteen years. A further raise in the levee, which would likely be prohibitively expensive, would then be required. The Tribe believes that other alternatives for flood control for the City of Lewiston must be assessed. Breaching one or more of the Lower Saake River Section 2.5.2.3. Levee Raise: As stated in the General Comments senion, the Tribe has dams would likely be a more cost effective and ecologically beneficial solution. An

sconomic analysis of cost of further layer raises compared to that of dam breaching and speciesm flood control is seeded.

2.5.2 Alternative 3 - Maintonance Drodging With Upland Disponi and a 3.Foot (8.9m) Lever Raise

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The Nex Perce Tribe objects to Alternative 3 and uning upland disconal for dredged material. Upland disponed has serious drawtecks, which the draft DMARPERS extraweledges. Additional dredging would be required to seatone access to the proposed side, and a dewatering process would be required at the smarker station used to move the nature all from weater to last, The affinant from this process could be highly contaminated, and could cause a turbidity plume as well. Weater quality, the benefite community, and BSA-listed fish could all be impacted.

Section 2.5.3.2. Upland Disponed Sint: in addition to the concerns expressed in the General Comments section, the Table is concerned about possible contaminated material being deposited at the site. The deaft DMM-PFHS states that such makerial would be believed and appropriate confinement massures taken, e.g. as impervious lines would be installed to prevent leading. There is no statement of our unstalled between the confinement of the process and an analysis of its cost are needed in addition; supposedly impervious lines have a long history of kalang, which could result in the contamination of this process and an analysis of its cost are needed in addition; supposedly impervious lines have a long history of kalang, which could result in the contamination of groundwater. Contaminated material could also result in air quality impers through airborne distribution of direct particles. Bioconcentration of contaminates could occur as

25.4 Akernetive 4 - Mataleonance Dredging Wilk Beneficial Use of Dreignet Maleorial and a 3-Foot (0.9m) Lares Raise The Nez Perce Tribe does not support the Proposed Action Alternative due to concerns expressed above regarding RSA-listed fish species, fish habitat creation, possible spread of contamination from designed material, and the long-term ineffectiveness of the levoe raise. The Tribe has the following additional concerns regarding the feasibility of the proposed beneficial uses: Section 2.5.4.2, Beneficial User: The beneficial uses described in the draft DAMMPREIS all require a local sponsor to contribute a share of the cost. Has any research been done into the likelihood of finding such sponsors, how many would be needed, and for what period of time? Unless the required number of sponsors calists, the plan will not be able to be neated successfully. 27

feasibility of using dredged material for poining cell. How much of the dredged material would be suitable for poining cell given concerns about the presence of toxics? What are the place for triting of dredged material to use me it is appropriate for this use? What is the secondarie impact of that teating? Section 2.5.4.2.3, Positing Soil: There is no economic analysis given to support the

Section 2,5,4,2.3, Riparian fiabilat Restoration: If few or name of tentative spousors actually participated, how would this shomstive be affected? Since all these apoutors are tentative, this scenario could occur making this use of dredged material infessible.

Section 2.8.8 Monitoring

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The draft DMMP/EIS states that a detailed monitoring plan will be presented in the final plan. Once the final plan is publicated, it is too laid for the public to comment on its adoquery or inalequacy. Monitoring it a critical component of any plan, and it is essential that the public have the opportunity to evaluate and comment on it.

Section 3.1.1 Field

3.I.I.I Anadromous Fish

In several cases, the draft DMMPISIS provides contradictory information regarding anadromous fish. It states that wild Snake River spring/aumore chimock salmen and sdult shellhead are likely to be present in the proposed project areas during the winter in-water work window and in November at the loss date. But it also asserts that overwintering in the proposed dredging are is probably uncommon, and therefore not a cause for concern. In addition, it states that the clamabed dredge will not earning fish because of its design and manner of use the the chambled dredge will not earning fish because of its design whowever, it says that the possibility of entrainment does axist. Such smannering on the possibility of entrainment does axist. Such smannering on provide sufficient proof that no harm will be occur as required under the Endangered Species Act. Certainly, any fish that are present will be harassed by the drodging ectivities in violation of the RSA.

The volume of relocated sediment caused by the drudging is a particular area of councen.

The lower Snake River has a large sediment load has would be exacerbated by the funcinging through re-suspension of sediment sinc the water column locreased sediment has particularly humful habitat impacts, and regalively affects all life sevels of fight. Sediment deposition causes on increase in coclede embeddences, which degrades habitat quality. Sediment is also harmful to fry and juvenile fiah. Fine sediment causes gill irritation and metabolic streas, and can reduce the growth race of juveniles. Sediment gan also affect fish downstream and even system-wide. Even if few threstened salmonids are present at the time of the scheduled dredging, is important that they not be harmed. 30

The death DMMR/BLIS asserts that a small portion of the total life history of these fish is spent under direct influence of the hydro system. This statement is misleading since it does not state the important fact that the time under the influence of the hydro system is critical to the continuing survival of the fish. In addition, the statement is inaccorate. There are some anadomous fish that spawn and rear under the direct influence of the hydro system, and many more that the hydro system, and many more that the hydro system indirectly affects. 31

In its recently released Biological Opinion on the Foderal Hydropower System, the National Marios Fisheries Service stand that its focus for rationation of salmon will be on habitat. Clearly the impacts on habitat of deedging at the scale proposed directly contradict these goals 32

3.1.1.2 Resident Finh

With respect to bull brout, the draft DMB4PERS exchrow/edges that there is the potential for fish to be displaced from the deedging ares. It also asserts that any bull trout in the area would be startled and move twenty from the disturbance, thus preventing direct harm. However, the raise or shock wive succious distributes one of the farth wive succious distributes of divelged materials, so well as the studies change in high that would cause the studie reaction has the potential to cause accept extenditure as well as loss of habitat. The Endangered Species Act probabilities harasterns of this type. The finding that dredging and disposal operations may affect, but are not likely to advancely affect bull trout ignores the potential babitat loss and harasament described above. 33

3.5 Cultural Resources

The Nez Perce Tribe is concorned that the dredging will harm cultural properties. The draft DMMIP/SIS actinowiedges the existence of speculinately 600 known achieves within the project area. The changes in reservoir levels fram cultural measures. Although the dredging is intended to go no deeper than the usuital river bottom. It is not clear that the dredgen will know they have reached that point until they dredge up piver rocks, at which point they will have already disturbed any cultural properties. In addition, cultural properties at disposal siles for dredged materials could suffer long-term impacts, aspecially those that are currently underwater and so difficult to dentify.

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In a November 23, 2001 letter to the New Perce Tribe, the Corps stated their intention to do cultural resource assessments of all Alternative 4 undertakings on a case-by-case basis. The Tribe supports this assessment process. 38

3.9 Water Qualify Water Resources

scenarios, Water quality effects of the dredging acknowledged in the draft DMMPPELS include turbidity plumes, ne-arspension of makerials, and animonia. Furbidity is known to be harmful to all life stages of fish. It leads to an increase in salinity, which harms freshwater bloks that cannot cannot guide even a small increase in salinity. Animonia is tokic to aquate organisms. Tokic compounds are also a concern. The Nez Perce Tribe is concurred about the water quality impacts of all the dredging 36

Section 3.9.1.6. Lower Snake River Water Quality:

The most immediate and obvious water quality impalment resulting from the dredging is large turbidity plumes maching up and down stream of the dredging sites. Dredging

36 cont

activities may potentially occur non-stop during the alased project period resulting in extrended periods of increased water turbidity. Elevated turbidity reduces the amount of light potentiation in the water that reduces photosymbeals and the production of dissolved oxygen. Suspended sediments that eacher during the removal process will resultie. locally and downstream of the dwdgr and disposal sites. Suspended materials can clog fish gills, reducing disease ratistace, and affecting egg and larval development. The draft DM/MP/EIS states that fish only had damaged gills when extreme quantities of sediment were suspended in test waters. What are those lavels? How do they compare to projected increased tability from drafging? Until these questions are answered, no eccurate assessment of the impacts of increased turbidity from drafging can be made covering the stream bottom, smothering fish eggs, and henthic macroinvertebrates both

Increased nurbidity is also a concern state as enspended particles about beat resulting in anotherson water lamperatures. Elevated temperatures can lead to a reduction in oxygen content of water which in turns impacts rates of photosynthesis, metabolic rates of aquatic organisms (e.g., BSA-listed salmonles), and the sensitivity of equatic organisms to environmental strustes such as disease, parasites, and toxic wastes.

the redox state of sodiment associated contaminates or numbers. A scientific analysis of potential sodiment numbers and chemical contaminate mobilization due to changes in oxygen concentration is not provided in the draft DMM/PRIS. Specifically, the short and long-term nite-specific impacts to phytoplatition seasonal succession patients and production should be discussed. In addition, the dark DMM/PRIS should include an analysis of the mobilization potential of sedimons-associated contaminates, the concentration of these contaminates in the in-water disposal sines, the rice of the turbidity plume, and the potential for biosecumolation of contaminates through food web Changes in oxygen concentrations at the rediment-water interface can also affect pH and

problem, in a situation where nitrogen compounds are clevated, a very small amount of phosphorus can cause algas blooms to occur. This is particularly true in waters, such as the Lower Stake River, that sare already classified as tupor mesorophic to entrophic. Even though the proposed work window is in the winter, harmful algal blooms can still occur. There is much evidence of algae growth during winter, and even under ice. The proposed on-site testing for these compounds is act adequate for avoiding impainment of As the draft DMMPPES states, the Sastes River sediments are very rich in mutricing. The proposed dredging could cause the release of animonia (NHs), which is taxic to aquatic life. Both nitrate and ortho-phosphate could also be released. It is known that algoe booms are mostly likely to occur when nitrogen and phospharus both increase Despite the statement in draft DMMPPES that small releases of phospharus should not pose a water quality and possible harmful impacts to aquatic ocyanism. Ouce the compounds are released, the dumage is done. It is possible at that point, however, not to do further

The existence of coxic substances in sodiments is a concern. The draft DMMPRIN states that chlorinated furns and dioxin congeners were detected in sediment samples collected

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revealed the presence of chlorine dioxin congeners at several of the proposed project sites. Given the past variability in the denotion of these chemicals it is unclear whicher the 2000 sediment contaminate data is muly representative of what will be found throughout faint dendging activities. Furthermore, the draft DARAPIELS gives assume, without providing the supporting actions and data, that contaminate levels are below those that would eliminate an in-stream disposal option. 39 cont. | from the project ares in 1991, 1996, and 1998. Sediment data collected in 2000 has

Another concern of the Neer Perce Tribe is the reliability of the toxic substance day see for assessing works quality and public health impacts. The dark DeMAPPIES states that from it sampling dan is not available for seesa where dedging is proposed in the lower Soake River. Complete teachine sampling of exile substances must be performed in any proposed denging sees before designing of exile substances must be performed in any "additional monitoring for means would be included in future sampling events that to dendging a specific area," and that "some additional water quality analysis for organic chemicals may be recommended by the Testing Francework as it developes" are not an addequate approaches to essure that water quality is appropriately assessed. \$

for Class A Waters, the occurrence of lenk concentration while below those which have the potential either stagnishing or cannulatively to adversely affect characteristic water user, cause acties or chronic conditions to the most aemely whose department from those waters, or adversely affect public health, as determined by the department 'lwAc these waters, or adversely affect public health, as determined by the department' lwAc presence of bediment-associated the autyporting actientific evidence that the presence of bediment-associated confaminates will be consistent with the State of Wellbriggo Surface Water Quality Standards. An economicant with the State of Vellbriggo Surface Water Challity Standards. An economicant was assumed a transmante assumences that public health and equatic wildlift will not be negatively impacted through exposure to three contaminates during and after deciging operations. The Water Quality Standards for Surface Waters of the Stude of Washington specifies than

The Lower State River is included on the State of Washington's 1998 303(d) list as a water quality limited stream segment for temperature, dissolved crygen and total dissolved gas. As such, the Lower Snake River does not provide for the protection of cold water flab as required by the Clean Water Act, 33 U.S.C. § 1251 (a)(2). Clearly, further degradation of this waterbody should not occur from human caused activities.

Sections 3.9.1.9 and 3.9.1.10, Columbia River and Stake River Water Quality;

The Ner Perce Tribe has the same concerns regarding nutrient, and loxic substances as

Section 3.9.2, Sediment Quality:

Sediment in the Starke River is conteminated with several compounds that are tighty toxic to aqualic life. For example, the draft DMMP/EIS states that dioxie TEQ exceeded minimum sodiment quality exiteria. DDT, which is highly toxic to fish and invertebrates,

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is another chemical of concern. Dredging has a high probability of releasing these substances into the water column. In addition, the data cited for matrix are from a 1973-gudy. More carrent data is essential for any decirion regarding the impacts of the dredging on water quality.

41 cont.

Analyses in Appendix H are based on dear from 1994–1997, but EPA has since navised the criteria for those chemicals and, as stand in the dank DMMP/RIS, testing must be repeated. The document saws that the Coors plays to evaluate the issue further and determines what, if any, additional testing and analysis may be needed, it is clear that more testing is needed. Without an accurate knowledge of the concentrations of these necessarility is needed. Without an accurate knowledge of the concentrations of these lethal chemicals, the impact of the deviging cannot be securately assessed.

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Despite the acknowledgement of the presence of hernful substances in sediments, the draft DMMP/EIS states that, "Dregaing the assignment downstream of the dams should have inthe effect on water quality since the material to be removed by expected to be tive cobbles with some larger tocks with very small amount of finet." This conclusion cannot be accepted.

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3.10 Hazardous, Taxic, and Radioactive Waste (HTRW)

The Corps does not adequately address health impacts from potential exposure to contaminates from the long-term direct, indirect, and cumulative impacts related to the proposed dredging in the draft DMMAPIRIS. Consideration of public health is one of the proposed dredging in the draft DMMAPIRIS. Consideration of public health is one of the proposed dredging in the draft DMMAPIRIS. (115 Cons. Rec. 19 too) (1969), Potential public health issues associated with the displacement and movement of contaminated public health issues associated with the displacement and movement of contaminated solutions to the Nex Percenting the contaminates of particular concern for the Nex Percenting the contemporary of the Nex Percenting the Next Percenting the

One of the deedging sites is located less than two miles downstream of the Poulsch
effluent discharge pipe. Effluent discharge from this facility contains organochlorines.
Dioxins are a group of these structurally related chlorinated organic compounds
consisting of dibera-p-dioxins and chlorinated diberatefrants. The 2-3.7-8-TCCD form
off dioxin is extremely taxic and a known sudocrine damper. In February 1997, The
World Health Organization upgraded dioxin from a "probable" to a "unown human
who are expressed to may amount of dioxin are as an increased risk for emeer (EPA 1997).
The new discharge permit for the Potiach pulp and space mill will continue to allow
organochlorizes to enter the Clearwater River.

Dioxing are found in soil and sediments that serve as anyionmental reservoirs. These chemical compounds can be incorporated into fish tissue via aquatic food web interactions. In fact, the presence of dioxins/funnis in fish has influenced this iscusce of \$150 fish consummation anyionerie by 19 states as of December 1998. Founds exposed to higher levels of dioxins facture those groups, such as the Next Perce Titles, who consume foods (e.g., fish), containing high dioxin concentrations. In an earlier EPA funded study, the Columbia River Inter Tribal Fish Commission determined that the mean rate of fash

consumption for Columbia River Basin Tribal members was approximately ten times higher than that of the mon-Tribal community (CRITFC 1994). This inherest reliance on the fithery resource makes Tribal members particularly vulnerable to dioxin exposure.

44 cont. The absence of 7,3.7.8 TCDD, the most toxic form of dioxin, in the Corps rediment samples is insufficient reason to conclude a non-significant burnan health risk from organochlorines. Lest toxic congeners were present and although these congeners were found in small amounts, exposures to those compounds is associated with many adverse beath efficies in laboratory animals. Publicatiological studies have suggested that dioxins humans (BPA 1977). Simply stading that these contaminates occurred in "small amounts" is insufficient evidence to conclude a finding of no significant impact to Tribal and non-Tithal community health.

The Corps' trust responsibility to the Ner Perce Tribe requires that the Corps protect the trasty-reserved fathery resource and Tribal health. As part of this nesponsibility, the Corps trusts carefully reavaluate their proposed action to desdge the navigation channel and the impacts to Tribal health and well-being. This evaluation must include a determination of whether part fludings of chlorinated frants and dionin congruess is rediring amount to whether part fludings of chlorinated frants and dionin congruess is rediring amount of taken from project area in 1991, 1996, 1998 present a burnur health risk. In addition, this evaluation should include a human risk assentment analysis that considers part, present, and fourse exposures to all toxic forms of dioxins.

A.I. Aguatic Resources

4.1.1 Droiged Material Remoral:

The Nex Perce Tribe has several concerns about the process of removing dredged material. The draft DMAMP/RIS states that if there is a 5-NTU increase over background unbidility at a point 300 feet downsteam, immediate actions will be taken to reduce the plume. How did the Copys decide on the 5-NTU over background number? Is there say exientific support for that number? Even though the draft DMAMP/RIS asserts that the effects are local and tomporary, a plume of suspended solds meating 1000 feet downstream one have a definitional affect on aquatic life, perticularly any fish that may be in the are. If deciging space a large are, the effects will be even greated.

46 Additionally, even "Adort-term" inguets can have long lesting effects on aquatic life. The draft DMAMP/RIS also fails to deline what is meant by "short-term," and appears to be guessing at how long it would lake to accompiled the reduction.

The Copys lacks an adequate emergency response plan to address situations where unbidity exceeds the state of Washington Water Quality Standards. The EA states that the construction will be nequired to contact the Corps within eight bours should tarbidity exceed allowable levels and temporarily stop developing operations. However, the costsation of dardging cannot mitigate for impaired water quality. Detailed, procedural stops for addressing elevated mitigate for impaired water quality. Detailed, procedural stops for addressing elevated tarbidity and the associated mitigation measures should be included in the draft DMARPERS. In addition, the short and knys-term impacts textiling.

4

#

from these incidents on the plant, benthis, and fish community should be more thoroughly described.

The draft DMMAPELS asserts that there would be ecological benefit from dredging to the original river channel through improving the integrity of the river bottom, and so benefiting white sturgeon and benthic macrolaverebrates. The draft DMMAPELS cleas serveral studies (in Section 4.1.7) that show that benthic macrolaverebrates recolonize rapidly. These references, however, are to the words of a single author whose nesearch is familed by the Corps. This is not adequate scientific evidence. Also, there are no references to research showing that dredging in actually benefits benthic macroinvertebrates or white sturgeou.

8

The Tribe questions the need for hydraelic dredging. Can it be done without aginning the sediments, as stated in the drift DARAPRIST We also question the use of stury for Wildlife planting areas or to restone stroked streambants for the reasons stated above in the General Comments section.

6

4.1.7 Critical Habitat Considerations:

See comments in the General Comments section.

4.6 Sociosconomics

The Nez Perce Tribe strongly distagres with the statement in the draft DMARPERS that none of the alternatives are anticipated to disproportionately affect low-income or univority populations in the area. Any adverse impact on fish and fish habitat has a disproportional impact on the Nez Perce due to their railance our fish for food said the importance of fish to their culture and spirituality. As stated above, in as EPA funded study, the Columbia River Inter-Tribal Fish Commission determined that the mean rate of fish consumption for Columbia River Basin Tribal members was approximately ten times higher than that of the noa-Tribal community (CRITPC 1994).

4.14 Cumulative Effects

The cumulative effects analysis in the draft DMMRPEIS is inadequate and does not meet the requirements in NEPA. In doing a cumulative effects analysis, the Corps must consider all significant direct, and cumulative impacts of the proposed action. 40 C.F.R. § 1508.25. A cumulative environmental impact is the sum total of all internmental impacts of the proposed action. 40 C.F.R. § 1508.25. A cumulative environmental impact is the sum total of all internmental impacts of the proposed action in consideration of past, present, and future federal or non-federal actions. 40 C.F.R. § 1508.7. In violation of NEPA, the draft DMMRPRIS falls to disculbance caused by the Sanke and Columbia River darm, linct use activities upstream of the project stret. burge traffic, past and future fordering activities, and leves modifications. In particular, it does not consider the impacts of the Sanke and Columbia. River dams at all, except to say that future drawdown accentains are unknown, and so

contact be considered. The past and current impacts of those dams are ignored. Upstream land use activities as well as current sad fature barge unific are not mentioned.

SI The cumulative effects on public health from exposure to chemical contaminates is also missing. Specifically, this cumulative analysis should examine the potential for sold-entiting these sediments associated contaminates over time in the previous shallow where health, the foreigned and down stream water quality impacts resulting from the mobilization of these contaminates due to embankment failure, the premisal for incommission of contaminates due to embankment failure ille premisal for recently incommission of contaminates in fish tissue, and exposure to contaminates from recently activities. The cumpletive impacts of contaminates from and new Potlanth permits mast also be included in the analysis.

52. Additionally, there is no mention of the cumulative effects on river morphology, both up and downstream of the Project Area and disposal alea, from repeased major disturbance caused by deciging and in-water disposal. An additional important concern is the controls.

Another concern that is not addressed it that the ongoing nature of the drudging may prevent the establishment of spawning and reading up of the Project Arms. Although the drul DAMAPRIS states that many imposts studied no local and short-term, it does not assess the recurring nature of the impacts over a period of years. This is especially impostant since the Project Arms is designated critical habitat for reading of salmonid species.

Since the actions proposed in the draft DadAPPERS are designed to establish a procedure for the disposal of dradged material over the sext twenty year, it is essential for the cumulative effects analysis to be thorough and complete.

The Nex Power Tribe may have other comments and concerns regarding the draft DNMMP/EIS, but due to the brief comment pariod and the fact that the period spanned the Christmas and New Year's halidays, there was insufficient time to thoroughly assets the extansive document. Despite prepared requests by the Nex Perce Tribe and others for an extended comment period, the Corps decided only to great a short extension for final comments. Draft continents were still due on the original consument deadline.

If you have any questions at concerns regarding this latter, please feel free to contact Barbara fayen in our Water Resources Division (208-243-7368), Thank you.

Sincerely, Karrenel M. Mararay Samuel N. Penney

Nez Perce Tribal Executive Committee Comment 1

fishing resource, and so cause irreparable harm to fish species protected under the Endangered The Nez Perce Tribe has concluded that implementation of any of the alternatives presented in the draft DMMP/EIS, including the preferred alternative, would likely seriously degrade the Species Act (ESA).

endangered UCRS chinook, endangered UCR steelhead, or threatened MCR steelhead or result in the adverse modification or destruction of their Critical Habitat. The determination of no Appendix F). However in the NMFS Biological Opinion, it is stated, "The NMFS has determined that the effects of the proposed actions will not jeopardize the continued existence of endangered SR sockeye, threatened SRF chinook, threatened SRB steelhead, jeopardy is based upon the current status of the species, the environmental baseline for the action The Corps realizes that dredging and disposal of material in the lower Snake River and McNary Reservoir may have negative impacts to some ESA-listed fish in the project areas (DMMP area, and the effects of the proposed actions.

Organization

Nez Perce Tribal Executive Committee

Such Action (implementation of any of the alternatives presented in thedraft DMMP/EIS) would adversely impact federally and judicially confirmed treaty rights of the Næ Perce Tribe.

The Corps' recommended plan includes provisions to minimize adverse effects on ESA-listed (RPM's) provided by NMFS in their Biological Opinion for the DMMP, the Corps will not incorporating conservation measures and following the Reasonable and Prudent Measures fish. In addition, the National Marine Fisheries Service (NMFS) has determined that by eopardize ESA-listed fish with its dredging and dredged material disposal operation.

Organization

Nez Perce Tribal Executive Committee

Comment 3

The presence or absence of the species at the time of the alteration is not a factor.

Clearwater rivers. Although most endangered or threatened salmonids use this area primarily as a nabitat creation by disposal, the DMMP/EIS indicates that beneficial use of dredged material will indicates, "The NMFS has determined that the effects of the proposed actions will not jeopardize round. However, because most of the proposed dredging area is in the main channel of the river, chinook, threatened SRB steelhead, endangered UCRS chinook, endangered UCR steelhead, or the continued existence of endangered SR sockeye, threatened SRF chinook, threatened SRSS threatened MCR steelhead or result in the adverse modification or destruction of their Critical have a net benefit on critical habitat for fall chimock. The National Marine Fisheries Service migratory corridor, some fish including fall chinook and steelhead may rear in this area year shorelines. Because most shoreline areas are not intended for dredging, but are intended for The primary dredging areas are in the main channel near the confluence of the Snake and fewer fish use this area as rearing habitat, as most habitat preferences are oriented along

Final DMMP/EIS

U.S. Army Corps of Engineers

Responses to Comments

Habitat. The determination of no jeopardy is based upon the current status of the species, the environmental baseline for the action area, and the effects of the proposed actions.

Nez Perce Tribal Executive Committee

The draft DMMP/EIS does not give any information on critical habitat for fall chinook or bull trout. Impacts to critical habitat for these species need to be provided.

or result in the adverse modification or destruction of their Critical Habitat. The determination of no jeopardy is based upon the current status of the species, the crivinonmental baseline for the action area, and the effects of the proposed actions." Similarly, the US Fish and Wildlife Service Critical habitat is discussed in Appendix K of the DMMP/EIS. The primary dredging areas are in including fall chinook and steelhead may rear in this area year round. However, because most of determined that the effects of the proposed actions will not jeopardize the continued existence of steelhead, endangered UCRS chinook, endangered UCR steelhead, or threatened MCR steelhead has concurred that the proposed actions may affect, but is not likely to adversely affect bull trout. the proposed dredging area is in the main channel of the river, fewer fish use this area as rearing habitat, as most habitat preferences are oriented along shorelines. Because most shoreline areas are not intended for dredging, but are intended for habitat creation by disposal, the DMMP/EIS endangered or threatened salmonids use this area primarily as a migratory corridor, some fish endangered SR sockeye, threatened SRF chinook, threatened SRSS chinook, threatened SRB indicates that proposed beneficial use of dredged material will have a net benefit on critical habitat for fall chinook. The National Marine Fisheries Service indicates, "The NMFS has the main channel near the confluence of the Snake and Clearwater rivers. Although most

Also see response to Nez Perce Tribal Executive Committee Comment 3.

Nez Perce Tribal Executive Committee

channels that critical habitat areas near shore will not be impacted. Even if those areas will not be directly impacted, they will be affected since the rive is a system, and it is impossible to impact one area without also impacting nearby areas. Thus, the adverse impacts would be The draft DMMP/EIS states that since dredging will only occur in the main navigation indirect ones, which are not allowed under the ESA

cumulative - of dredging and dredged material management activities. NMFS has reviewed the likely impacts to ESA-listed fish species, and determined that the proposed activities would not The DMMP/EIS acknowledges the potential impacts and benefits - direct, indirect, and jeopardize listed fish species.

Final DMMP/EIS

U.S. Army Corps of Engineers

Nez Perce Tribal Executive Committee

The stated mitigation approach is to dredge when these species are less likely to be present, and to use clamshell dredges, which areunlikely to entrain fish. Both these approaches are inadequate to protect fish.

estimates." This indicates that that only a small proportion of fall chinook may over winter every during the summer as subyearlings (Tiffan et al, 2001). According to Williams and Bjorm 1998, year. Dredging with a clamshell during the two specified periods, and when fish are expected to overwintered and migrated seaward as yearlings in spring was small and did not effect survival Fall chinook typically have an ocean type rearing life history and typically outmigrate seaward understands that this may still have impacts on adult Steelhead and rearing juvenile salmonids, "A small proportion of hatchery and natural subyearling fall chinook salmon residualized and be at low abundances, are acceptable methods for reducing the possible entrainment of fish. Furthermore, clamshell dredging allows fish to escape entrainment. Although the Corps migrated early in spring 1997; however, as with fish released in 1995, the number that the NMFS Biological Opmion indicates that the dredging and disposal actions are not jeopardizing the continued existence of the ESA listed species.

Nez Perce Tribal Executive Committee

Comment 7

Possible impacts to Tucannon River bull trout must be included in the drast DMMP/EIS.

as documented with one radio-tagged fish monitored in 1993. Within a few days, it traveled from Since the Tucannon River is the only major tributary in the lower Snake River that is a source of fluvial life history forms. Adfluvial fish are also present in the mainstern upper Tucannon River heading for the Snake River (WDFW 1998). Thus, individuals may migrate to the Snake River. As noted in the DMMRP/EIS (Section 3.1.1.2) limited numbers of bull frout have been counted. above the Tucannon hatchery to the Starbuck area where the signal was lost. It appeared to be The bull trout in the upper Tucannon River and its tributaries (Cummings, Panjab, Sheep, and bull frout/Dolly Varden, it can be assumed that bull frout/Dolly Varden in the project area are Bear Creeks) and Pataha Creek are a distinct stock. Most major tributaries have resident and Tucannon River fish. The general discussion relating to impacts to fish species presented in Section 4.1 of the DMMP/EIS apply to Tucannon River bull trout.

Organization

Nez Perce Tribal Executive Committee

Comment 8

The draft DMMP/EIS does not address possible harm to fall chinook salmon, which have been observed overwintering in the project area. Sub-yearling fall chinook would be particularly vulnerable to impacts from dredging.

Response

These issues surrounding fall chinook are addressed in the DMMP in Appendix F, pages F41.45 and in Appendix K, pages K3-7. The Corps outlined fall chinook behavior and life stages in the project area and determined that proposed activities would likely adversely affect fall chinook

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

proposed activities will not be jeopardizing the existence of any of the endangered species in the salmon by dredging. However, the Corps would be creating a long-term benefit to these salmonids by creating rearing habitat. The NMFS agreed in their Biological Opinion that dredging area.

Organization

Vez Perce Tribal Executive Committee

and 1998. It is highly likely that more recent data would show different results, especially in light Despite the statement in the draft DMMP/EIS that it is improbable that dredged material would even be moderately contaminated, the data on which that conclusion is based is dan from 1997 of effluent from the Potlatch pulp and paper mill and agricultural runoff.

Analysis prior to dredging will include chemical analysis to identify contaminants if they exist within the sediments to be dredged. The collection and analysis of sediment samples will be done of concern will be identified prior to the start of dredging operations. A monitoring plan has been developed, and is included with the Final DMMP/EIS. Monitoring during dredging will assess whether unacceptable amounts of sediment movement may occur during dredging operations and require that the work be stopped and/or modified to provide additional controls or limit the extent analysis plan that is designed to provide a high probability that significant amounts of chemicals limit the extent of impacts if an unknown "hot spot" is encountered during dredging. The Corps results indicates that substantial impacts resulting from contaminated sediments remain unlikely. reintroduction of any chemicals of concern into the water column, monitoring will be used to sampled sediments in the areas of proposed dredging in 2000 as well, and review of sampling in accordance with the dredged traterial evaluation framework and a specific sampling and The findings presented in the DMMP/EIS are based on reviews of available sediment data. of sediment plumes in the river. While the Corps' intent is to test the sediment and avoid

Organization

Nez Perce Tribal Executive Committee

Comment 10

looks like it may be coutaminated, a test will be done. A visual analysis, though, is far from being dredged material will be determined. It states that whenever a load of dredged material visually that would be analyzed. Importantly, how would the cost of these analyses impact the feasibility state what analyses would be done on the material, nor the percentage of the dredged material Furthermore, the draft DMMP/EIS does not give adequate information on how the usability of an adequate indication of the presence of contamination. Also, the draft DMMP/EIS does not of the proposed alternatives?

Response

be developed for each site that identifies the number of samples to be taken, sample locations, and unacceptable materials will be identified prior to the start of dredging. The types of analysis to be discharges to the river from industrial, agricultural, municipal and other sources. Visual analysis In accordance with the dredged material evaluation framework, a sampling and analysis plan will the constituents that will be included in the laboratory analysis. The number of samples and the would only be used to identify an oily sheen on dredged material. The cost of sampling and run on the collected samples will be based on the results of historical sampling, and known ocations where samples will be taken will be designed to ensure a high probability that

Final DMMP/EIS July 2002

analysis would be small in comparison to the overall cost of dredging.

Also see response to comment 9 above.

Organization

Nez Perce Tribal Executive Committee

Comment 11

The mitigation proposed in the draft DMMP/EIS (in Section 4.2.5) of purchasing new land would not truly compensate for the loss of habitat. Wildlife would still be displaced, and there is no guarantee that the habitat in the purchased land would be as suitable.

monitoring plan will be prepared for review and comment. This plan would be the basis for site provide habitat values that would be lost as a result of use of the Joso size for upland disposal. While there would be no "guarantee" that replacement HMU lands would be "as suitable" as those lands that would be utilized, the Corps would take steps to ensure that mitigation sites Specifically, as noted in the DMMP/EIS, the Corps would coordinate with the WDFW and USFWS regarding mitigation site selection and restoration. A re-vegetation planting and

proposed dredged material disposal. Upland disposal, if employed, would involve placement of temporary impacts to upland wildlife, this activity would actually improve the existing upland habitat by filling and re-vegetating the quarry area with species native to the area. This would result in a long-term improvement of habitat at the Joso site. dredged material in the abandoned gravel quarry at the Joso site. Though it would result in At this time, no native upland vegetative communities are targeted for destruction due to

Organization

Nez Perce Tribal Executive Committee

Comment 12

that habitat will be stable and lasting.... The Lower Snake River, which has several ESA-listed There is a notable lack of references to research confirming that the proposed construction of lish species, is not an appropriate place to experimenton construction of fish habitat.

comment that the lower Snake River is no place for experiments on development of fish habitat, experimental fish habitat development began in the mid-1980s for in-water disposal at Centennial include analyzing the disposal site to ensure its physical and biological integrity (See Appendix The NMFS requires in its Biological Opinion for the DMMP that additional monitoring of the M). Because the proposed areas are well within the reservoir, the physical integrity of them is Island, and has demonstrated that in-water disposal is a viable method for creating salmonid nabitat will occur, which was anticipated by the Corps (Appendix F, FA-10). These studies thought to be more stable and less susceptible to erosion from high flows. Regarding the habitat in the reservoir.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Appendix O
Responses to Comments

Organization

Nez Perce Tribal Executive Committee Comment 13

The Corps has not compiled with its own policy guidance on tribal trust and consultation in the preparation of the draft DMMP/EIS.

has been initiated, but does not state or imply that consultation has been completed. The Corps is working with the tribes to set up Government-to-Government meetings to facilitate completion of Government consultation with the affected tribes. The Draft DMMP/EIS stated that consultation Section 6.4.3 of the DMMP/EIS the Corps provides the current status of Government-toconsultation with involved tribes prior to signing a Record of Decision.

Organization

Nez Perce Tribal Executive Committee

Comment 14

This time limitation (short comment period and only 11 day extension) does not meet the spirit or letter of tribal consultation

The time limitation to respond to the Draft DMMP/EIS was set within the requirements of NEPA. The review of the NEPA document is not intended to constitute Government-to-Government consultation with the Tribe. The Corps is committed to meeting tribal consultation requirements in addition to meeting NEPA requirements.

Organization

Nez Perce Tribal Executive Committee

Comment 15

The group, however, has no members from the Nez Perce or other Indian tribes. The Tribes are among those groups the draft DMMP/EIS indicates will be asked to participate only on an as needed basis.

Response

Tibe, Confederated Tribes of the Umatilla Indian Reservation, Confederated Tribes and Bands of the Yakama Indian Nation, Confederated Tribes of the Colville Reservation, and the Wanapum Band have been invited to every meeting of the Local Sediment Management Group (LSMG). Technical staff members from most of the Tribes, including several from the Nez Perce Tribe, esentatives from the cultural resource and water quality technical staffs of the Nez Perce have attended these meetings.

I'ribes and non-agency groups such as ports and transportation interests. The Nez Perce Tribe has Section 1.8 has been revised to show an expanded list of participants in the LSMG including been invited to join the LSMG as a regular participant.

Organization

Nez Perce Tribal Executive Committee Comment 16

Any impacts on salmon, which all the alternatives have, have a disproportionate impact on the

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers

Nez Perce Tribe. The evaluation must also consider human haulth impacts, and the increased impact on tribal members who consume greater quantities of fish.

Resnonse

The Corps' environmental justice analysis considered the effects of the alternatives on lowincome and minority communities that are potentially affected. The DMMP/DEIS concluded that
incone of the alternatives considered in detail would cause a disproportionately high and adverse
effect on low-income or minority populations in the area. The four alternatives considered in
detail, including the no action alternative, would have indirect, minor, short-term effects on
aquatic species. Two of the four alternatives, including the preferred alternative, would provide
potential beneficial effects to aquatic resources through the implementation of beneficial uses of
dredged material, such as creation of woody riparian habitat and/or shallow water fish habitat.

Given the fact that no substantial impacts were anticipated, and the dispersed nafure of most of the impacts that would be likely to occur, the Corps concluded in the DMMP/EIS that impacts would not be likely to be high, adverse, nor fall disproportionately on any demographic group in the project area. The discussion of environmental justice analysis is presented in greater detail in Section 4.6 of the Final DMMP/EIS.

The Corps acknowledges the importance of the Columbia/Snake River fishery to Native American communities both as a food source and as a spiritual and cultural resource. However, based on the analysis of the environmental impacts of the DMMP atternatives and consultations with resource agencies, significant adverse effects on aquatic resources, including salmon and steelhead, are not anticipated to result from the proposed action. Further, mitigation measures and efforts to maximize beneficial uses of dredged material proposed in the EIS are anticipated to minimize adverse effects to aquatic resources and potentially create new habitat for salmonid species. NMFS' Biological Opinion states that the proposed action will not cause jeopardy for endangered fish stocks in the middle Columbia and lower Snake Rivers.

Organization

Nez Perce Tribal Executive Committee

Comment 17

The draft DMMP/EIS does not present a reasonable range of alternatives.

Response

The range of alternatives meets the project purpose and need. Non-dredging and reduced dredging alternatives were considered. The Corps was unable to identify any non-dredging alternatives that would preclude the need for dredging. Reducing sediment generated by land use practices was considered, but would not eliminate the need for dredging. Although the Corps has no authority to change land use practices on non-Corps property, the Corps plans to use the Local Sediment Management Group to pursue possible modifications to land use practices.

Organization

Nez Perce Tribal Executive Committee

Comment 18

Alternative 1, which is presented as the noaction alternative, is not truly naction, but merely presents status quo management of the project area. A true noaction alternative is one in which dreaging does not occur.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

This interpretation is described in the Council on Environmental Quality publication "NEPA's Forty Most Asked Questions." See response to Save our Wild Salmon's comment 6.

doing business. For the DMMP/EIS, "no action" was defined as no change in the way the Corps

is currently maintaining the navigation channel, port facilities, boat basins, or irrigation intakes.

alternative can also be called the "No Change" alternative, as in no change in the current way of

When preparing National Environmental Policy Act (NEPA) documents, the "No Action"

Organization

Nez Perce Tribal Executive Committee

The DMMPIEIS does not provide an analysis that considers having navigation be limited to periods of higher flows, nor limiting navigation at some periods to smaller vessels with less draft. Renome

The Columbia/Snake waterway is managed to provide the authorized navigation channel yearround except for the annual lock maintenance outage in March. See response to Save our Wild Salmon comment 29 regarding options including limitations on navigation.

Organization

Nez Perce Tribal Executive Committee

omment 20

[A]II the alternatives presented in the draft DMMPIEIS are dredging alternatives. It is shortsighted for the Corps to focus on only "end of the pipe solutions" rather than the sources of sediment loading. Although the DMMPIEIS states that the Corps does not have the authority to control land uses and find management practices in the wasping in the watershed, they could contribute the money used for dredging to sponsor programs to address upkind and streambank erosion problems in the upper watershed. The Corps shalld, therefore, include an alternative that focuses on riparian restoration and best management practices in forest and agricultural areas.

Response

The Corps expends funds only as authorized by Congress. Although the Corps has no authority to change land use practices on non-Corps property, the Corps plans to use the Local Sediment Management Group to pursue possible modifications to land use practices. Section 2.5.4 has been revised to include a new Corps initiative as a beneficial use. This mitiative is the Woody Riparian Program, which is part of the Lower Snake River Fish and Widlife Compensation Plan (LSRFWCP). This initiative allows the Corps to develop woody riparian vegetation on the Corps lower Snake River project lands and on any lands purchased by the Corps as part of the LSRFWCP. As part of this initiative, the Corps is proposing to use dredged material to create planning benches and perform shoreline restoration to create more riparian habitat along the lower Snake River. As described in Appendix N, the Corps is proposing to use dredged material to create a riparian planting bench at the Chief Timothy Habitat Management Unit in the winter of 2002-2003.

Final DMMP/EIS July 2002

Nez Perce Tribal Executive Committee

fish migration. There are additional economic and environmental considerations that need to be in its alternatives. The Corps' recent decision not to breach was based only on issues of juvenile long-term solution to the problem of sediment accumulation and potential flooding of the City of Importantly, the draft DIMAP/EIS does not consider breaching the four Lower Snake River dam. Lewiston. It is highly probable that the proposed 3-foot levee raise in the alternatives will prove assessed In particular, breaching Lower Granite Dam may be the only economially feasible inadequate within the next five to fifteen years.

alternative in the Feasibility Study is System Improvements (Adaptive Migration), which includes National Marine Fisheries Service (NMFS) Biological Opinion calls for major progress reports in channel within the five reservoirs. Therefore, dam breaching was not considered as an alternative. dam breaching. If the decision is made that dam breaching is necessary for the recovery of listed 2003, 2005, and 2008. The 2008 report must include a determination of whether or not to pursue Breaching any of the dams would not meet the purpose of maintaining the authorized navigation of the DMMP/EIS. Section 1.6 of the DMMP/EIS addresses the relationship of the DMMP/EIS to the Lower Snake River Juvenile Salmon Migration Feasibility Study (Feasibility Study). The modifying the dams, optimizing voluntary spill, and implementing operational modifications for the alternatives. Therefore, the DMMP/EISdid not repeat this analysis. However, the preferred However, this does not mean that possible dam breaching was not considered in the preparation Feasibility Study analyzed the impacts of breaching the four lower Snake River dams as one of decision is made and Congress authorizes dam breaching, the Corps has the responsibility to salmon stocks, the Corps will seek congressional authorization for breaching. Until such a fish transportation. Even though this alternative does not include dam breaching, the 2000 maintain the navigation in the lower Snake River as authorized by Congress.

feet, coupled with navigation channel maintenance dredging as proposed, would provide adequate Based on the Flood Damage Assessment model, raising parts of the Lewiston levees by up to 3 flow conveyance at Lewiston through 2074. It is unlikely the Corps would need to consider raising the levees again until then.

Organization

Nez Perce Tribal Executive Committee

Comment 22

supported without maintenance dredging. Although dredging is authorized, it is not required, and It is unclear from the draft LMMP/EIS whether this inland navigation system/waterway can be so technically the Corps does not need to dredge.

dredging to maintain the navigation channel. Because the Corps has the responsibility to maintain the navigation channel, some dredging will likely be required. The Corps was unable to identify any alternative that preduded the need for at least some

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Appendix O
Responses to Comments

Nez Perce Tribal Executive Committee Comment 23

The Nez Perce Tribe strongy objects to the No Change In-Water Disposal alternative.

Response

Your comment is noted.

Organization

Vez Perce Tribal Executive Committee

Comment 24

quality as for Alternative I. In addition, the Tribe has concerns about the creation of fish habitat as expressed in the General Comments section, as well as the proposed levee raise and disposal The Nez Perce Tribe is ako opposed to Alternative 2. We have the same concerns about water process as described below.

2.2.4.1 and throughout Section 4.1. Section 4.1 discusses the impacts of all of the alternatives on resources is presented in Appendix K, Aquatic Resources, and Appendix F, Endangered Species University of Idaho (see response to Save our Wild Salmon's Comment 19 for description of study design). His work, along with that of several other researchers is referenced in Section aquatic resources. Additional information about the effects of the proposed plan on aquatic The proposed disposal process is based on research conducted by Dr. David Bennett of the Act Compliance, for anadromous fish species.

Organization

Nez Perce Tribal Executive Committee

Comment 25

The Nez Perce Tribe objects to Alternative 3 and using upland disposal for dredged material.

Response

Your comment is noted.

Organization

Nez Perce Tribal Executive Committee

Comment 26

The Tribe is concerned about possible contaminated material being deposited at the site. There is material is contiminated or unsuitable. A description of this process and an analysis of its cost no statement, however, regarding how a determination would be made of whether dredge are needed.

Response

material for in water disposal. If the results of testing identify contaminants that could be harmful See response to Save our Wild Salmon's comment 16. Appendix J to the DMMP/EIS, Dredged contaminated sediments during dredging or avoid dredging in the locations where contaminated sediments have been identified. Sediments that are contaminated will be disposed of at an Material Evaluation Framework, discusses the methodology for determining the suitability of to the river ecosystem, the Corps will initiate appropriate steps to control the spread of approved upland disposal site.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers

The costs atmbuted to each of the alternatives include costs associated with disposal of a portion of the dredged volume, assumed to be contaminated sediments, at an upland site

Nez Perce Tribal Executive Committee

Section 2.5.4.2, Beneficial Usex: The beneficial uses described in the draft DMMPIEIS all require using dredged material for potting soil. How much of the dredged material would be suitable for a local sponsor to contribute a share of the cost. Has any rexearch been done into the likelihood of finding such sponsors, how many would be needed, and for what period of time? Unless the sponsors actually participated, how would this alternative be affected? Since all these sponsors Section 2.5.4.2.3 Potting Soil: There is no economic analysis given to support the feasibility of required number of sponsors exists, the plan will not be able to be implemented successfully... dredged material to assure it is appropriate for this use? What is the economic impact of that polling soil given concerns about the presence of toxics? What are the plans for testing of testing? ... Section 2.5.4.2.3, Riparian Habitat Restoration: If few or none of the tentative are tentative, this scenario could occur making his use of dredged material infeasible.

requirements. If no sponsor steps forward, the Corps would dispose of the material in a beneficial manner within existing Corps authority. At present, this would likely be either in-water to create Several of these were suggested by other agencies or by the ports. The agencies and the ports were aware of the cost sharing requirements for implementing these uses. Sediment sampling shallow-water rearing habitat for fall chinook or creation of woody riparian habitat along the shoreline of the lower Snake River. See response to comment 26 above regarding testing of The beneficial uses described in the DMMP/EIS are examples of potential beneficial uses. data would be made available to the potential sponsor to ensure the sediments met their

Nez Perce Tribal Executive Committee

The draft DMMP/EIS states that a detailed monitoring plan will be presented in the final plan. inadequacy. Monitoring is a critical component of any plan, and it is essential that the public Once the final plan is published, it is too late of the public to comment on its adequacy or have the opportunity to evaluate and comment on it.

A monitoring program is included as Appendix M of the Final DMMP/EIS. The Corps will provide at least 30 days for public consideration of the Final DMMP/EISbefore Record of Decision is signed.

Organization

Nez Perce Tribal Executive Committee

Comment 29

Such (conflicting) statements (in 3.1.1.1 Aradromous Fish) do not provide sufficient proof that no

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

Appendix O
Responses to Comments

harm will occur as required under the Endangered Species Act. Certainly, any fish that are present will be harassed by the dredging activities in violation of the ESA.

estimates." This indicates that that only a small proportion of fall chinook may over winter every juvenile salmonids, the NMFS Biological Opinion (2000) indicates that the dredging and disposal during the summer as subyearlings (Tiffan et al, 2001). According to Williams and Bjorm 1998 year. Dredging with a clamshell during the two specified periods, and when fish are expected to Although the Corps understands that this may still have impacts on aduk Steelhead and rearing overwintered and migrated scaward as yearlings in spring was small and did not effect survival Fall chinook typically have an ocean type rearing life history and typically outmigrate seaward "A small proportion of hatchery and natural subyearling fall chinook salmon residualized and be at low abundances, are acceptable methods for reducing the possible entrainment of fish. migrated early in spring 1997; however, as with fish released in 1995, the number that actions are not jeopardizing the continued existence of the ESA listed species.

Organization

Nez Perce Tribal Executive Committee

Comment 30

lower Snake River has a large sediment load that would be exacerbated by the dredging through re-suspension of sediments into the water column. Increased sediment has particularly harmful downstream and even system-wide. Even if few threatened salmonids are present at the time of The volume of relocated satiment caused by the dredging is a particular area of concern. The habitat impacts, and negatively affects all life cycles of fish. Sediment can also affect fish the schedulad dredging, it is important that they not be harmed.

Wildlife Service indicates that there is little evidence that dredging operations actually cause any of the problems for fish attributed to high turbidity (Allen and Hardy, 1980). In fact the criteria of conservative. Although turbidity may cause stress, Gregory and Northcote (1993) have shown that moderate levels of turbidity (35-150 NTU) accelerate foraging rates among juvenile chinook The reason the confluence and off channel areas need to be dredged is because finer material has sediment can have negative impacts on fish, many scientists in the region have indicated that an increased sediment load during the outmigration may serve as a benefit to migrating fish by not exceeding 5 NTUs over the background level for turbidity while dredging is relatively salmon, likely because of reduced vulnerability to predators (camouflaging effect). While been deposited there over the cobbles that currently form the river- bed. The US Fish and reducing predation.

Organization

Nez Perce Tribal Executive Committee

Comment 31

under direct influence of the hydro-system. This statement is misleading since it does not state the important fact that the time under the influence of the hydro-system is critical to the continuing The draft DMMP/EIS asserts that a small portion of the total life history of these fish is spent survival of the fish. It addition, the statement is inaccurate.

Response

Every life stage is critical to a fish with one no more critical than the other. Attempting to sscerain how long fish are within the influence of the hydrosystem is a difficult concept.

Final DMMP/EIS

U.S. Army Corps of Engineers

1997; however, as with fish released in 1995, the number that overwintered and migrated seaward ends, if it does. However, in the area of influence of the dredging, the life stage of spring/summer of hatchery and natural subyearling fall chinook salmon residualized and migrated early in spring Considering that the hydroprojects on the Srake and Columbia rivers span seven states and two subyearlings. (Tiffan et al, 2001). According to Williams and Bjornn 1998, "A small proportion as yearlings in spring was small and did not effect survival estimates." This indicates that only a trying to increase suitable habitat for this species for rearing). Snake river all chinook typically chinook is measured in typically less than a week out of a four to five year average lifespan. In outmigrate the same year, spanning approximately six months (the prinary reason the Corps is distributed down river, it is difficult to determine when the affect actually occurred or when it have an ocean type rearing life history and typically outmigrate seaward during the summer as addition, fall chinook that rear in Hells Canyon and the lower Snake River, typically rear and Canadian Provinces, with hydroprojects from numerous agencies affecting how water is small proportion of fall chinook may over winter every year in the reservoirs.

As part of the monitoring plan, outlined in the NMFS Biological Opinion (2000) for the DMMP, backwater habitats in the proposed dredging areas prior to dredging to determine the spatial and adult steelhead is known to occur in the project area. As a result, the Corps is using the in water temporal distributions of rearing salmonids, and habitat use. In addition, the overwintering of work windows to attempt to dredge when abundances of these fish are the lowest, and to use one of the reasonable and prudent measures under section C.2.5, includes examining the rethods that will be less likely to entrain fish.

DMMP indicates that The Corps will not be jeopardizing the continued existence of these species reason, the DMMP/EIS indicated that proposed activities may likely adversely affect most of the However, a small proportion of individuals may overwinter in the proposed work areas. For this ESA listed species in the project area. However, the NMFS Biological Opinion (2000) for the Therefore, our statement of low fish residence time in the area is accurate for most species. by dredging and disposing of material in the project area.

Organization

Vez Perce Tribal Executive Committee

Clearly, the impacts on habitat of dredging at the scale proposed directly contradict these goals (restoration of salmon habitat, as described in the NMFS Biological Opinion on the Federal Hydropower System).

Woody Riparian Habitat Program through the Lower Snake River Compensation Plan is meant to On the contrary, creating habitat in the mainstem river from where there is currently none or poor project, the Corps has met the baseline data gathering and is now attempting to mimic the habitat habitat is consistent with the NMFS Biological Opinion (2000). This in combination with the create significant mainstem habitat improvements. Action 155 states "BPA, working with the Corps will take immediate steps to begin to address these uncertainties by collecting baseline data, improving mainstem reaches in ways that mimic the range and the diversity of historic habitat conditions as much as possible, and monitoring and evaluating the results." For this hat was in place prior to the hydrosystem completion.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Responses to Comments

Nez Perce Tribal Executive Committee

Comment 33

With respect to bull trout, the draft DMMP/EIS acknowledges that there is the potential for fish to that would cause the startle reaction has the potential to cause excess energy expenditure as well or shock wave associated with release of dredged material, as well as the sudden change in light that dredging and disposal operations may affect, but are not likelyto adversely affect bull trout startled and move away from the disturbance, thus preventing direct harm. However, the noise as loss of habitat. The Endangered Species Act prohibits harassment of this type. The findings be displaced from the dredging area. It also asserts that any bull trout in the area would be ignores the potental habitat loss and harassment described above.

clamshell during the two specified periods, and when fish are expected to be at low abundances, are acceptable methods for reducing the possible entrainment of fish (see Appendix G). The Only a small proportion of bull trout may over winter in the project vicinity. Dredging with a disposal actions would not jeopardize the continued existence of the ESA listed species (see Corps understands that this may still have impacts on bull trout. However, the dredging and Appendix G) and Section 4.3 of the DMMP/EIS.

river during the summer months. In addition, bull trout spawn in August and September, a period during times of dredging, they would be using portions of the river that would not be impacted by Reservoir may have negative impacts to some ESA-listed fish in the project areas. Although bull areas where the majority of prey exists. Thus, even though bull trout may be present in the river Evidence suggests that adfluvial (migratory) from the Tucannon River also utilize the mainstem The Corps realizes that dredging and disposal of material in the lower Snake River and McNary Snake River on a seasonal basis (November - May). These fish most likely forage in shallow trout have been documented in the lower Snake River, there is no evidence of them using the the dredging operation. The current proposed disposal of dredged material at Chief Timothy when temperatures would have exceeded 59°F even before the hydrosystem was in place. HMU has the remote chance of displacing bull frout. However, due to the distance to the ucannon River from this site, this possibility is very remote. Thus, given the small likelihood that bull frout will be present and that the dredging will occur in the channel and not in the areas used by bull trout, impacts to bull trout are discountable and the not likely to adversely affect bull trout is valid.

Organization

Nez Perce Tribal Executive Committee

Comment 34

The changes in reservoir levels harm cultural resources. Although the dredging is intended to go materials could suffer long-term impacts, especially those that are currently underwater and so disturbed any cultural properties. In addition, cultural properties at disposal sites for dredged no deeper than the natural river bottom, it is not clear that the dredgers will know they have reached that point until they dredge up river rocks, at which point they will have already difficult to identify.

specifications of dredging depths in the contract and the usual methods employed by the dredging The second paragraph of Section 4.5.1.1 of the EIS has been modified to further define Corps contractor and the Corps to monitor the resulting depth of the dredging activity.

Final DMMP/EIS July 2002

The Corps contract drawings and specifications identify the horizontal limits of the dredging areas as well as larget elevations to define the depth of required dredging. In most cases in the Snake and Columbia Rivers within the Walla Walla District, the Corps specifies one foot of depth beyond the authorized 14-foot channel depth as an advanced measure allowance. Dredging of this additional foot is allowed to increase the time between dredging activities required at a particular location. The target depth is usually set at 15 feet below the minimum operating pool level. The Corps also establishes a payline elevation one foot below the target depth as an allowable overdredge to afford the contractor form rangen for error in his dredging activity. The Corps will only pay for material that is removed down to the payline elevation. For maintenance deedging, payline elevations established will not be below the surface of the original riverhed or shoreline material. Although the Corps does not impose a monetary penalty on the contractor for exceeding the depth established by the payline elevation, the contractor will experience a reduction in profit if the contractor removes material for which there is no compensation. The contractors are generally very careful not to remove material below the payline, as this increases their operating expenses with no offsetting compensation.

Both the Corps and the dredging contractor monitor the resulting depths of the dredging activity. The Corps specifies a pre-activity survey to establish bottom elevations prior to the dredging activity. The Corps specifies a pre-activity, the contractor containtously monitors the depth of dredging usually by the following methods. Just prior to beginning dredging at a location, the cortractor establishes the water surface elevation using survey methods based on an on-land survey monument or control point. The contractor then marks the support cable of the dredge clarachell surget dredge elevation and the payline elevation (as described above) when the cable (or arm) mark is at the water surface. Monitoring of the mark relative to the water surface tells the contractor when he is close to the target elevation. When the contractor is assisted that he is between the target elevation and the payline elevation, he generally uses a depth sounder to verify that he reached the target elevation and did not leave any high points within the dredging template or prism. The Corps specifies a post-activity survey, compares this information with the pre-activity survey, and uses the results to establish the volume of material removed above the payline, and thereby the payment amount.

Organization

Nez Perce Tribal Executive Committee

Comment 35

In a November 23, 2001 letter to the Nez Perce Tribe, the Corps stated their intention to do cultural resources assessments of all Alternative 4 undertakings on a case-by-case basis. The

Tribe supports this assessment process. Response

Your comment is noted.

Organization

Nez Perce Tribal Executive Committee

Comment 36

Water quality effects of the dredging acknowledged in the draft DMMPIEIS include turbidity plumes, re-suspension of materials, and ammonia. Turbidity is known to be harmful to all life

Final DMMP/EIS

v 2002

U.S. Army Corps of Engineers Walla Walla District

stages of fish. It leads to an increase in salinity, which harms freshwater biota that cannot osmoregulate even a small increase in salinity. Ammonia is toxic to aquatic organisms. Toxic compounds are also a concern. What are those levels? How do they compare to projected increased turbidity from dredging? Until these questions are answered, no accurate assessment of the impacts of increased turbidity from dredging can be made. Increased turbidity is also a concern since as suspended particles absorb heat resulting in increased water temperatures.

Increases in turbidity are expected to be localized to the immediate area of the dredging and dredged material disposal activities, and be limited to the duration of the dredging project. Because most dredging would be performed in the winter, when air and water temperatures are relatively low and solar heating is minimal, temperature impacts due to short-term turbidity increases at the dredge site are expected to be minimal.

During implementation of the DMMP, the dredged material evaluation framework will guide assessment of sediment and water quality, and a sampling analysis plan and monitoning plan will be developed for each individual dredging project. Sediments to be dredged will be sampled and analyzed for grain size distribution and selected chemical constituents. Site-specific sampling performed prior to dredging will include an analysis of ammonia in the sediment and water. If nitrogen concentrations in the sediments exceed the threshold level stated in the dredged material dredging framework, eluriate testing will be performed prior to dredging to ensure that dredging will not exceed permitted levels.

Results of sediment sampling will be used to develop a site-specific monitoring plan, which will be implemented to minimize impacts to downstream water quality. Monitoring will include turbidity, ammonia, armonia, temperature, and pH, along with other chemical constituents if sediment-sampling results indicate potential for partitioning chemical constituents from sediment into water. Site-specific sampling data and monitoring plans will be reviewed by appropriate water quality regulatory agencies prior to dredging as part of the Clean Water Act 401 certification process. Information gathered during each dredging activity will be applied to future dredging projects within in the 20-year period. If data gathered during dredging and/or disposal activity midicates that levels of turbidity, ammonia, temperature, and pH caused by the dredging are not information, the dredge operation will be curtailed until measures are taken to bring the activity into compliance.

Organization

Nez Perce Tribal Executive Committee

omment 37

Changes in oxygen concentrations at the sediment-water interface can also affect pH and the redox state of sediment associated with contaminates or nutrients. A scientific analysis of potential sediment nutrient and chemical contaminate mobilization due to changes in oxygen concentration is not provided in the draft DMAPPIEIS. Specifically, the short and long-term site-specific impacts to phytoplankton seasonal succession patterns and production should be discussed. In addition, the draft DMAMPIEIS should include an analysis of the mobilization potential of sediment-associated contaminates, the concentration of these contaminates in the inwater disposal sites, the size of the turbility plume, and the potential for bioaccamulation of contaminates through food web interactions.

Response

Ouring implementation of the DMMP, a sampling analysis plan and monitoring plan will be developed for each individual dredging project. Sediments to be dredged will be sampled and

Final DMMP/EIS

July 2002

analyzed for grain size distribution and selected chemical constituents. Results will be used to develop a site-specific monitoring plan, which will be implemented to minimize impacts to nutrients or regulated chemical constituents, elutriate testing or water quality modeling (for partitioning of chemical constituents from sediments into water and downstream migration. downstream water quality. If sediment sampling results indicate relatively high levels of example, using the ADDAMS DREDGE module) will be performed to evaluate potential

constituents from sediments into water. Site-specific sampling data and monitoring plans will be reviewed by appropriate water quality regulatory agencies prior to dredging as part of the 401 Monitoring will include turbidity, ammonia, temperature, and pH, along with other chemical constituents if sediment sampling results indicate the potential for partitioning of chemical permitting process.

placement. Sediments will be placed at upland sites if analyses indicate that the sediment grain-Sediment sampling results will also be used to determine if sediments are suitable for in-water size distribution or chemical composition is unsuitable for in-water placement. The Dredged Material Evaluation Framework (Appendix J) will guide evaluation of sediment.

minimized. Increases in turbidity due to dredging are expected to be localized to the immediate area of the dredge site and be limited to the duration of the dredging project. Thus, short-term impacts to biota are expected to be limited to the immediate area of the dredge site. As part of the Because dredging operations will be monitored and managed to minimize downstream migration and after dredging occurs. Information gathered during each dredging activity will be applied to Reasonable and Prudent Measures set out by the National Manne Fisheries Service's Biological Opinion, the Corps is directed to assess the habitat that is currently in the reservoir both before of sediment and associated chemical constituents, long-term impacts to biota will also be uture dredging projects within in the 20-year period.

Organization

Vez Perce Tribal Executive Committee

Comment 38

nitrogen compounds are elevated, a very small amount of phosphorus can cause algae blooms to occur. The proposed on-site testing for these compounds is not adequate for avoiding impairment The proposed dredging could cause the release of ammonia (NH), which is toxic to aquatic life. DMMP/EIS that small releases of phosphorus should not pose a problem, in a situation where Both nitrate and ortho-phosphate could also be released. Despite the statement in the draft of water quality and possible harmful impacts to aquatic organisms.

On-site sampling and monitoring, and adaptive management of dredging and in-water placement activities will be performed to comply with applicable water quality regulations and the NMFS Biological Opinion (2000). NMFS has determined that these measures will minimize adverse mpacts to Essential Fish Habitat and aquatic organisms.

Organization

Nez Perce Tribal Executive Committee

Comment 39

the existence of toxic substances in sediments is a concern. Given the past variability in he

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers

Responses to Comments

representative of what will be found throughout future dredging activities. Furthermore, the draft DMMP/EIS gives assurance, without providing the supporting science and data, that contaminate detection of these chemicals it is unclear whether the 2000 sediment contiminate data is truly levels are below those that would eliminate an in-stream disposal option.

The findings presented in the DMMP/EIS are based upon multiple years of sediment sampling and analysis data. See response to Save our Wild Salmon's comment 16.

Organization

Nez Perce Tribal Executive Committee

Comment 40

Another concern of the Nez Perce Tribe is the reliability of the toxic substance data set for assessing water quality and public health impacts. Complete baseline sampling of toxic substances must be performed in any proposed dredging area before dredging occurs.

developed for each site will be reviewed by appropriate water quality regulatory agencies prior to in accordance with the dredged material evaluation framework. Sediments to be dredged will be Site-specific sediment sampling will be performed for each individual project prior to dredging, sampled and analyzed for grain size distribution and selected chemical constituents. Analytes will be selected based on site-specific characteristics. Sampling data and monitoring plans dredging as part of the 401 permitting process.

Organization

Vez Perce Tribal Executive Committee

Comment 41

Standards. An ecosystem-level analysis of the patential exposure to toxic contaminate is required associated contaminates will be consistent with the State of Washington Surface Water Quality in order to provide reasonable assurances that public health and aquatic wildlife will not be The Corps has not provided the supporting scientific evidence that the presence of sediment negatively impacted through exposure to these contaminates during and after dredging operations.

Existing sample analyses along with additional sampling prior to dredging would fulfill regulatory requirements to protect water resources and fish and their habitat. The methodology for dredge sampling is contained in Appendix J (Dredged Material Evaluation Framework) of the M). The process identified in Appendix J - Dredged Material Evaluation Framework, is, in part, contained in NMFS' Biological Opinion (2000) and the Monitoring Program (Appendices F and organics and the level of contaminants. The framework is structured to identify sediments that DMMP/EIS. Additional information concerning monitoring requirements during dredging is based on data indicating that there is a high correlation between the proportions of fines and have the potential to contain levels of contaminants that could have adverse effects on the ecosystem and prohibit in-water disposal of those sediments.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers

Nez Perce Tribal Executive Committee

Comment 42

and determine what, if any, additional testing and analysis may be needed. It is clear that more The document says that the Corps plans to evaluate the issue (contaminated sediment) further testing is needed.

As noted in the response to comment 41 above, the Dredged Material Evaluation Framework will guide sediment sampling and analysis pursuant to the DMMP.

Nez Perce Tribal Executive Committee

Comment 43

should have little effect on water quality since the material to beremoved is expected to be river The draft DMMP/EIS states that "Dredging the navigation channel downstream of the dams cobbles with some larger rocks with very small amount of fines." This conclusin cannot be accepted

low probability of contaminants and dredging would cause little turbidity. However, to verify the been mostly cobbles, with little fines. Because very little fines are likely to be present, there is a Contaminants generally bind with fines. Historically sediments at these lock approaches have absence of fines and contaminants, the Corps will sample sediment and monitor water quality during dredging and disposal activities. Site-specific sampling data will be used to develop a monitoring plan that will be implemented during dredging and to determine whether or not available data. Additional site-specific data will be collected prior to each dredging project. The information presented regarding grain-size distribution in Section 3.9.2.2 is based on dredged material is suitable for in-water placement.

Organization

Nez Perce Tribal Executive Committee

The Corps does not adequately address hedth impacts from potential exposure to contaminates from the long-term direct, indirect, and cumulative impacts related to the proposed dredging in the draft DMMPIEIS. The absence of 2,3,7,8 TCDD, the most toxic form of dioxin, in the Corps sediment samples is insufficient reason to conclude a non-significant human health risk from organochlorines. Simply stating that these contaminates occurred in "small amounts" is insufficient evidence to conclude a FONSI to Tribal and non-Tribal community health

See response to comment 41 above.

Organization

Nez Perce Tribal Executive Committee

Comment 45

How did the Corps decide on the 5-NTU over background number? Is there any scientific support for that number?

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Responses to Comments

background levels when the background level is 50 NTUs or less nor have more than a 10 percent This number is based on state water quality standards. As stated in Section 3.9.1.2, water quality determine the operational criteria described in Section 4.1.1. Also see response to comment 30 increase when background is more than 50 NTUs. These regulatory standards were used to standards in Idaho and Washington specify that turbidity shall neither exceed 5 NTUs over above.

Nez Perce Tribal Executive Committee

Additionally, even "short-term" impacts can have long lasting effects on aquatic life. The draft DMMPEIS also fails to define what is meant by "short-term," and appears to be guessing at how long it would take to accomplish the reduction.

"Short-term" refers to impacts that are limited to the duration of the dredging activity. Dredging and in-water placement activities will be performed to comply with applicable water quality regulations and the Reasonable and Prudent Measures and Terms and Conditions of the NMFS Biological Opinion (2000). NMFS has determined that these measures will minimize adverse impacts to Essential Fish Habitat

relatively conservative. Although turbidity may cause stress, Gregory and Northcote (1993) have shown that moderate levels of turbidity (35-150 NTU) accelerate foraging rates among juvenile The criteria of not exceeding 5 NTUs over the background level for turbidity while dredging is The US Fish and Wildlife Service indicates that there is little evidence that dredging operations actually cause any of the problems for fish atmbuted to high turbidity (Allen and Hardy, 1980). chinook salmon, likely because of reduced vuherability to predators (camouflaging effect).

Organization

Vez Perce Tribal Executive Committee

Comment 47

addition, the short and long-term impacts resulting from these incidents on the plant, benthic, and cannot mitigate for impaired water quality. Detailed, procedural steps for addressing elevated turbidity and the associated mitigation measures should be included in the draft DMMP/EIS. In exceeds the state of Washington Water Quality Standard. . . . However, cessation of dreaging The Corps lacks an adequate emergency response plan to address situations where turbidity fish community should be more thoroughly described,

regulatory agencies (for example the Washington Department of Ecology) will determine the time period within which modified dredging methods must meet regulatory acceptable turbidity levels. developed for each dredging project. As described in the DMMP, turbidity exceeding regulatory acceptable levels will be addressed by modifying and/or ceasing dredging practices. Appropriate Turbidity will be monitored as described in the DMMP and site-specific monitoring plan

The US Fish and Wildlife Service indicates that there is little evidence that dredging operations The criteria of not exceeding 5 NTUs over the background level for turbidity while dredging is actually cause any of the problems for fish attributed to high turbidity (Allen and Hardy, 1980).

Final DMMP/EIS

U.S. Army Corps of Engineers

Fisheries Service Biological Opinion, the Corps is to assess the habitat that is currently in the Additionally, as part of the Reasonable and Prudent Measures set out by the National Marine reservoir both before and after dredging occurs. Information gathered during each dredging activity will be applied to future dredging projects within in the 20-year period.

Organization

Nez Perce Tribal Executive Committee

Comment 48

These references (studies cited in section 4.1.7 of the DMMP) however, are the work of a single author whose research is funded by the Corps. This is not adequate scientific evidence. Also, there are no references to research showing that dredging actually benefits benthic macroinvertebrates or white sturgeon.

researcher involved with many of the studies was David Bennett, Ph.D., a tenured professor at the University of Idaho. With a multiple year study design, a lead researcher who is a leading expert science behind the proposed aquatic habitat creation with dredged materials is sound. (Web et al. Numerous scientists from federal, state, university and tribal agencies set up the study design referenced in the comment. These agencies include the US Army Corps of Engineers, U.S. Fish and Wildlife Service, National Manne Fisheries Service, ESSA, Battelle-PNNL, Washington University of Washington, Oregon State University, and the Yakama Indian Nation. The lead in this field, and a study design from the region's leading experts, the Corps believes that the Department of Fisheries, Oregon Department of Fish and Wildlife, University of Idaho,

much as possible, and monitoring and evaluating the results." For this project, the Corps has met mainstem reaches in ways that mimic the range and the diversity of historic habitat conditions as In addition, the NMFS' Biological Opinion (2000) for operation of the FCRPS indicates that the Corps is supported in these actions. Action 155 states: 'BPA, working with the Corps will take the baseline data gathering through David Bennett's work and is now attempting to mirric the immediate steps to begin to address these uncertainties by collecting baseline data, improving habitat that was in place prior to the hydrosystem completion.

Regarding potential effects or benefits to macroinvertebrates and sturgeon, see response to the Idaho Dept. of Fish & Game's Comment 21. According to the NMFS' Biological Opinion (2000): "One impact of this habitat removal would invertebrates, particularly dipterans, are an important food item of juvenile chinook salmon and be the temporary loss of some potential prey species (invertebrates) and their habitat. Aquatic steelhead in the Lower Snake River (Bennett and Shrier 1986, Curet 1994)."

The NMFS Biological Opinion (2000) further states:

chironomids (dipterans) are the dominant invertebrates. These invertebrates are likely to be disturbance tolerant as their habitat is constantly modified by sediment accumulation The majority of dredging would focus on navigation lanes where oligochaetes and

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Responses to Comments

and dredging. Post-dredging recolonization would likely occur rapidly through drifting dredging would focus mainly on a relatively narrow portion of the river bed (navigation lanes), the temporary loss of invertebrate habitat is unlikely to limit food production or and crawling from adjacent non-disturbed areas (e.g., Mackay 1992). Because the significantly affect foraging opportunities within the reservoirs.

Organization

Nez Perce Tribal Executive Committee

Comment 49

planting areas or to restore eroded streambanks for the reasons stated above in the General sediments, as stated in the draft DMMP/EIS? We also question the use of sturry for wildlife The Tribe questions the need for hydradic dredging. Can it bedone without agitating the Comments section.

monitored to ensure compliance with the Clean Water Act. The Corps' last hydraulic operation Iurbidity generated at the dredging location by hydraulic dredging operations would be in the Snake Riverdid not exceed turbidity limits in effect at that time.

for barriers or containment structures to keep the dredged material isolated from the water column long enough to settle out. Again, monitoring would be performed to ensure that turbidity created An in-water disposal of the slurry from hydraulic dredging would most likely require provisions by the disposal operation stayed within acceptable limits pursuant to the Clean Water Act.

Nez Perce Tribal Executive Committee

Comment 50

use activities upstream of the project area, barge traffic, past and future dredging activities, and In violation of NEPA, the draft DMMP/EIS fails to disclose the curent likely cumulative effects resulting form the synergistic disturbance caused by the Snake and Columbia River dams, land evee modifications.

systems in evaluating the affected environment. The DMMP/EIS cumulative effects analysis evaluated the additive and/or synergistic effect of the proposed action, when considered with past, present, and reasonably foresceable actions (such as dams, navigation, historic dredging, etc.). The Draft DMMP/EIS did consider the historic alterations to the Snake and Columbia River See Section 4.14). In addition, this section has been expanded to include more analysis.

Also see response to Save our Wild Salmon's comment 25.

Organization

Nez Perce Tribal Executive Committee

Comment 51

The cumulative effects on public health from exposure to chemical contaminates is also missing. ediment-associated contaminates over time in the newly created shallow water habitat, the Specifically, this cumulative analysis should examine the potental for concentraing these

Final DMMP/EIS

July 2002

Appendix O
Responses to Comments

contaminates due to embankment failure, the potentid for bioaccumulation of contaminates in ocalized and downstream water quality impacts resuling from the mobilization of these ish tissue, and exposure to contaminates from recreational activities.

Response

for accumulating or concentrating chemicals over time. In addition, dredged material would not by the general public. A dredged material evaluation framework will be utilized to guide the onallow the Corps and resource management agencies to assess whether there may be the potential be used on swim beaches and there is very little chance of direct contact with dredged materials monitored on a programmatic basis through the duration of the DMMP. This monitoring would going sediment analysis. Based on existing sediment data, cumulative effects associated with Sediment quality as it relates to proposed dredging and submerged habitat creation would be sediment contaminants are not expected.

Organization

Nez Perce Tribal Executive Committee

downstream of the Project Area and disposal sites, from repeated major disturbance caused by Additionally, there is no mention of the cumulative effects on river morphology, both up and dredging and in-water disposal.

Response

proposed action would maintain the dimensions that were established when the reservoirs were created. Through beneficial use of dredged material the Corps would establish features lost The proposed action is no greater in scope or magnitude than past actions have been. The through development of dams (riparian shorelines and submerged bars)

Organization

Nez Perce Tribal Executive Committee

Another concern that isnot addressed is that the ongoing nature of the dredging may prevent the establishment of spawning and rearing use of the Project Area.

Response

Areas where spawning is expected to occur in the lower Snake River would not be dredged under this DMMP. We have proposed to dredge areas that typically have no spawning habitat and likely never would based on flow and sediment characteristics in these locations. In addition, the creation of rearing habitat along the shorelines would serve to increase fish habitat in the reservoirs and benefit endangered species.

and Figure F-2, and size of the habitat units are in Table F-4. We agree that there are no citations for creating the disposal sites. However, the Corps has a developed disposal plan for creating locations, slopes, depths and general schematics of each individual site, are outlined in Plate F-1 Structure of the habitat sites is indicated in Appendix F. The extent of the structures, including these habitats.

pre-impoundment. To define a minimum habitat acreage that would benefit juvenile salmonids, an average of the smallest sand habitat areas was calculated at 4 æres. This is below the average size for the majority of the habitats that were historically in the river. However, it was deemed a An analysis of historic sandbar habitats was performed using aerial photos of the Snake River

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Responses to Comments

minimum for salmonid habitat. The proposed acreages for habitat are outlined on page F16 and range from three to 87 acres. However, option 5 at Granite Point (3 acres) is less than the fouracre criterion and may need to be abandoned as a potential disposal site.

occur in the navigation channel. It is believed that the velocities on the navigation lock side of the river in this location are insufficient for attracting fish to spawn in these locations. Multiple years of survey occurred after the 1992 incident and no redds were ever found again downstream from the Juvenile Fish Facility and Powerhouse, however, not on the navigation lock side of the river. However, all dredging in the tailrace of Lower Monumental Dam covered under the DMMP will In 1992, eggs and alevins were discovered and some were destroyed while dredging in front of Lower Monumental Dam (Dauble et al 1998). THE NMFS Biological Opinion for the DMMP indicates, in section VII.C.1.3., the Corps will not dredge in the tailraces of the dam until redd surveys have been completed, as anticipated by the Corps (Appendix F).

Organization

Nez Perce Tribal Executive Committee

The Nez Perce Tribe may have other comments and concerns regarding the draft DMMP/EIS but had insufficient time to thoroughly assess the extensive documents.

Response

Your comment is noted. Review timeframes for the Draft DMMP/EIS were consistent with the requirements of NEPA and the Council on Environmental Quality's regulations implementing NEPA. The public will have a 30-day period to consider the Final EIS and the Corps will consider all new information provided before making a final decision regarding the DMMP.

Final DMMP/EIS

Ain: Jock Sands, Project h U.S. Army Corps of Engles Walls Walls District 201 North 3" Avenue Walls Walls, WA 99362

Dear Mr. Sends:

I write on behalf of the American Waterways Operatore (AWO) association for the infand and counal tuploos, towboat and burg the resustration of annual drudging and the maintenance of a Con 14 foot channel throughout the Soake River navigation system.

AWO believes that drodged materials and spoils should be disposed of in as environmentally responsible and cost effective meaner. However the decisions reasoned to dispose the decisions of the dispose of dispose of maintaining the marination channel. We are concerned from indicators the overall objective of maintaining the marination channel. We are concerned from indicators of the decision of fasticials on held pending approved of a decision, plan by NMIS. We understand that fooleted maintenance dredging to being conducted but we as all as was to a fastions of the foolete of the sections with a gastificant new rediments in the navigation channel. We gittensty unce that the Carps of Explores a distance of the control of the control

Organization The American Waterways Operators, Pacific Regional Office

Comment 1

However, the decisions regarding the disposal of dredgal materials and spoils should not impede or paralyze the overall objective of maintaining the navigation channel.
Response
Your comment is noted.

Organization The American Waterways Operators, Pacific Regional Office

Comment 2

We are concerned that maintenance dredging within the district is on had pending approval of a

dredging plan by NMFS.

Maintenance dredging was not on hold pending NMFS approval, but rather the completion of a programmatic plan for long-term dredged material management. NMFS has issued a Biological Opinion finding that the proposed maintenance dredging and dredged material management would not cause jeopardy to endangered fish stocks.

Organization The American Waterways Operators, Pacific Regional Office Comment 3

We strongly urge that the Corps of Engineers along with other federal agencies work together to ensure the timely resumption of necessary maintenance dredging throughout the Snake River. Absent this outcome, it is certain that navigation will be adversely affected and the regional economy will suffer.

Your comment is noted. Response

US Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002



Jerry Grossnickle, Chairman 13510 N.W. Old Germanswa Rd. Pordand, OR 97231-2775 Phone (503) 228-3046, Fax 283-1479

December 21, 2001

0/6

Aftn: Jack Sunds, Project Manager U.S. Arny Corps of Engineers Walle Walla District 201 North 3" Avenue Walle Walle, WA 99362-1876

Re: Draft DMMP/EIS

Dear Mr. Sands:

We would like to make a few comments on the recently-refeared Draft DlaMuP/ElS.

The Columbia River Towboat Association (CRTA) repeasents the tug and barge industry that uses the awigation system maintained by the Walla Plaints. We have a very direct stake in how the District manages is dredging program. If the District cannot dispose of the dredged material, it will not be able to maintain the 14-foot channel necessary for our continued operation on the Static River and McNary pool. As you know, all maintenance dredging within the District is on hold until you can operate under an approved plan, and as things stand now, channel depths at certain locations are maintained only because reservoirs are kept above minimum operating pools. As we are all very sware, this is a statation that channel ended may be a set of the savigation channels, and we will inevitably lose the ability to make pool levels high enough to maintain the channel depth.

The Process Should Not Impede Channel Maintenance

Therefore we are very interested in your plans to deal with deedged materials. As a general statement of our position, we would like to say that we believe that while dredged materials should be disposed of in an environmentally and economically responsible manner, the decision-matering process for doing this should not impede the overall objective, which is to get the dredging done and the channels maintained.

Of course, the DMMP/EIS is an effort to overcome the current gridlock and provide a mochanism for a more efficient process in the fixture. We support that effort, and we hope that the fixtal DMMP/EIS will be approved in a timely manner.

Beniart Bugge i fines · Bouse Tug & Barge · tess Martime SDN i unber Company · v Shaver Transportation · diskwater Barge Lines

DMMP/RIS Response December 21, 2001 Page 7 However, we would fibr to nake a few points that give us pause about whether the proposed plan will in fact provide the necessary efficiency.

Local Sediment Managamont Group

The use of a Local Scalinent Management Group to implement the DMMP would agree to be a very sensible approach to finding constants among the various relevant agencies before a dredging plan is formally aibmined to those agencies with review sutherity. We applied this collaborative approach, and we certainly think is abound be done. We applied the manmed as the bowhont industry has a major state in the Corp's dredging decisions, we need to participate in the effort. We will be happy to anappy your invitation to join the Group when it is extended.

The DMARP/RIS does not provide much guidance about how this process might sectually work, however, and we are concerned that the forum could possibly result in the high of delays that we are now seeing. Will there be definite time limits set on making decisions? Would the Corps consider the recommendations of the LSMO as mercy actions, with potential they carry some official weight within the Corps' own decision-making process, with potential legal consequences under administrative procedure or other federal regulations.

11

LSMC Should Facilitate Channel Maintenance

We note that among in general objectives the I.SIMG will be saked to ensure that all environmental laws and regulations will be followed, that necessary cultural resources will be protected, and that an interagency approach to dredged material management will be facilitated, etc. But nowhere do we see any suggestion that the work of the I.SIMG should be described by the work of the I.SIMG should be done in a timely manager. But is there a mention of what would seem to us to be the saw one overarching manalar, we could be right back to the kind of interagency wringing that has lost on the current impasse. Some of the agencies that have been asked to participate in the I.SIMG have little interest in whether or not channel maintenance is actually accomplished. We are not suggesting that they would necessarily be obstructionist, but their mandans are entirely different. We do suggest that for the I.SIMG process to work well, see handans are entirely different. We do suggest that they would necessarily be obstructionist, but they would accessarily be obstructionist, but their than the Carlott but a legal responsibility to maintain the channel, and that its involvement in the I.SIMG is for the express propose of helping it will be channel, and that its involvement in the I.SIMG is for the express propose of helping it will be channel, and that its involvement in the I.SIMG is not expense that does not in any wax impects channel maintenance.

DMMP/EIS Response December 21, 2001

LSMC Should Promote Cast-Liffactive Management

in

Scomplithed in a cost-effective manny, we are percentaless concentrates to conging to accomplished in a cost-effective manny, we are percentaless concentred that the LSMG increase midth requit in decisions that are not cost effective. There is no mention that the LSMG is bound by cost considerations as it develops in recommendations. We think that this mandates about the explicit, even while recognizing that the LSMG will need to balance costs against its other objectives. Frankly, if some of the cavironmenal and cultural protecration objectives are given excessive weight, the LSMG cost make channel maintenance so extremely expensive that it would arguebly cost more to maintain the channel maintenance so extremely expensive that it would arguebly cost more to maintain the channel maintenance so extremely expensive that it would arguebly cost more to maintain the channel maintenance and reason exough to require that the LSMG pay close this reason for concern, and reason exough to require that the LSMG pay close attention in the cost-effectiveness of their recommendations. Although the DMMP refers several times to the requirement that maintenance dredging be

Bereffein! Upen

We are particularly pleased with the emphasis that Alternative 4 places on flexibility and on beneficial uses of deedgod material. Clearly, some of the anixipated higher costs of handling deedged materials in new ways can be offset by using the deedged materials in bew ways can be offset by using the deedged material for brackfold uses, and we believe that it make state to fully explore such possibilities.

One of the many such possibilities involves the use of selected deedged materials for the creation of additional or improved habitats that benefit endangered figh. We think that this is an exciting lide, and we encourage the District and the LSMG to pursue it schould. Carefully considered placement of deedged materials (to create shallow-water benches behind the durn, for example) could well result in greater habitat diversity, increased productivity and benther yield, and could significantly benefit migrating salmonids. This is an opportunity that should be grasped. If sand and gravel dredged from the navigation channels could actually be used for the benefit of migrating endangered fish, and the biological benefit could be shown to warrant the costs, then this is something we should do. if's a classic "win/win" situation, with safe operating depths for towboats and better habitat for salmon.

One small budgersary rount should be usade about this and other beneficial uses that yound involve early organishable costs but whose benefits would not be as easily converted into dollars and cents. If dereland materials are used for next murouse, we believe that the last O & M funds normally allocated for maintenance dredging should not be charted, especially when other more arrowalls allocated for maintenance dredging should not be charted.

DMMP/EIS Response December 21, 2001 Page 4

We are pleased with the consent and direction of the draft DMMP, and we support your efforts to acrive at a consentual-based approach to managing dredged materials. We use adoption of a final Pleas within a time figure that permits necessary channel maintenance dredging to be done during the 2002-2003 "Sub-window."

ø

Columbia Towboat Association Comment 1

materials should be disposed of in an environmentally and economically responsible manner, the decision-making process for doing this should not impede the overall objective, which is to get As a general statement of our position, we would like to say that we believe that while dredged the dredging done and channels maintained.

maintain the navigation channel and certain public facilities while also doing so in a manner that is cost-effective and environmentally acceptable. This is also Corps policy. Dredging is just one dredging done". The decision-making process is aimed at meeting the project purpose and need. method to maintain navigation, so it is not correct to state that the overall objective is "to get the Your comment is noted. As stated in Section 1.2 of the EIS, the purpose of the DMMP is to It is not the Corps' intent that this process would delay the actions necessary to maintain navigation.

Columbia Towboat Association

very sensible approach to finding consensus among the various retevant agencies before a dredging plan is formally submitted to those agencies with review authority. Weapplaud this collaborative approach, and we certainly think it should be done. We also believe that masmuch The use of a Local Sediment Management Group to implement the DMMP would appear to be a as the towboat industry has a major stake in the Corp's dredging decisions, we need to participate in the effort.

Your support for the LSMG is acknowledged. Section 1.8 has been revised to show an expanded ist of participants in the LSMG including non-agency groups such as ports, Tribes, and ransportation interests. Your association will be invited to join the LSMG.

Organization

Columbia Towboat Association

The DMMP/EIS does not provide much guidance about how this process might actually work, however, and we are concerned that the forum could possibly result in the kinds of delays that we are now seeing.

Corps intends to coordinate with the LSMG early enough in the planning process to avoid delays in performing necessary future dredging. The Corps will take the recommendations of the LSMG consideration of applicable regulatory authority that some of the LSMG participants have with The Corps does not articipate the LSMG forum will result in delays in making decisions. The into consideration. However, the Corps will make the final decision regarding any future dredging or dredged material disposal activities. The Corps' decisions would reflect regard to Corps activities.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Columbia Towboat Association

Comment 4

maintenance... We do suggest that for the LSMG process to work well, each participating agency LSMG will help determine how dredging occurs and what happens to the dredged materials, but The work of the LSMG should be done in a timely marmer, nor is there a mention of what would involvement in the LSMG is for the express purpose of helping it fulfill that responsibility. The must accept that he Corps has a legal responsibility to maintain the channel, and that its seem to us to be the sine qua ron of its existence: that its function is to facilitate channel it must do its work in a manner that does not in any way impede channel maintenance

DMMP incorporates environmental considerations when identifying disposal methods, considers dredging that is consistent with environmental regulations. The LSMG is also to ensure that the methods to reduce dredging, and maximizes the beneficial use of dredged material. Section 1.8 to structure an evaluation process that assists in development of timely and cost-effective The purpose of the LSMG is not necessarily just to facilitate channel maintenance. has been revised to more clearly describe the purpose of the LSMG.

Columbia Towboat Association

Comment 5

We are nevertheless concerned that the LSMG process might result in decisions that are not cost-

The LSMG is to consider cost-effectiveness when recommending dredging and disposal methods. These methods must also be in compliance with applicable environmental laws and regulations. The Corps, not the LSMG, will make the final decision about how to conduct the dredging and disposal activities. The decision will follow Corps policy discussed previously in response to comment 1.

Also see response to comment 4 above.

Organization

Columbia Towboat Association

Comment 6

explore such possibilities. One of the many such possibilities involves the use of selected dredged Clearly, some of the anticipated higher costs of handling dredged materials in new ways can be offset by using dredged makrials for beneficial uses, and we believe that it makes sense to fully materials for he creation of additional or improved habitats that benefit endangered fish. We think that this is an exciting idea, and we encourage the District and the LSMG to pursue it seriously.

Response

Your comment is noted.

Organization

Final DMMP/EIS July 2002

Columbia Towboat Association

Comment 7

involve easily quantifiable costs but whose benefits would not be so easily converred into dollars and cents. If dreaged materials are used for such purposes, we believe that the O&M funds normally allocated for maintenance dreaging should not be charged, especially when other more appropriate funding sources are available. One small budgetary point should be made about this and other beneficial uses that would

Your comment is noted. Section 2.5.4 of the DMMP/EIS explains the cost-sharing aspects of several of the potential beneficial uses that were documented. Also see response to EPA's comment 22.

Organization Columbia Towboat Association

Comment 8

We urge adoption of a final Plan within a time frame hat permits necessary channel maintenance dredging to be done during the 2002-2003 "fish window".

Response
It is the intent of the Corps to complete the National Environmental Policy Act process and sign a
Record of Decision in 2002 so that the Dredged Material Management Plan can be implemented
immediately, including the decision for the proposed dredging in the winter of 2002-2003.

U.S. Army Corps of Engineers Walla Walla District

O-100

Clarkston Chamber of Commerce Columbia/Snake River Chamel and Port Resolution

A RESOLUTION in support of maintaining a river claumel and a river depth at each port that's antiable for travel and loading by todey's ships and berges on the Columbia/States river system.

WHEREAS, the U.S. Army Corts of Engineers is controlited by law to maintain an adequate rive depth for shipping and barging, and

WHEEREAS, the Northwest and the communities along the Columbia and Sanks Rivers are conceniesly dependent upon at adequate river depth for shipping and harging; and

WHEREAS, Factories, Milk, Agriculture and communities all depend upon an efficient and cost effective mode of transporting goods, and WHEEELAS, the jobe and earnings associated with having a constant and dependable barging, shipping and recreation system is intricately inner woven into the regional economy, and

WHEREAS, additional costs are incurred when talps and berges are not filled to capacity because portu and charactis are not deep enough, and

WHEREAS, additional costs are incurred when goods have to be shipped by alternative transportation

neans, and

NOW THEREFORE BE IT RESOLVED, that the Clariston Chamber supports proposed legislation and regulations for claimed desposing projects on the Columbia River and Snake River at depths deep and regulations for claims and bures to mentials a copacity fred and.

Another amounts proposed (satisficion and

BE IT FINIALLY RESOLVED, that the Carketon Chamber supports proposed jugislation and requisitions for channel despening projects that are supported by studies, which show drugging, or disposal of dredge spoils will not harm salmon or stocked.

PASSED by the Circiaton Chamber of Commerce Board of Directors at a regular board meeting the

Day of Deriche 273

Clarkston Chember of Commerce Clarkston, WA

Submitted by the joint Natural

Organization Natural Res. Committee of the Lewiston ID + Clarkston WA Chambers of Commerce Comment 1

The USACE is committed by law to maintain an adequate river depth for shipping and barging. Response Your comment is noted.

Organization
Natural Res. Committee of the Lewiston ID + Clarkston WA Chambers of Commerce

Comment 2

The Clarkston Chamber supports proposed legislation and regulations for channel deepening projects on the Columbia River and Snake River at depths deep enough to allow for today's ships and barges to maintain a capacity load.

Response
Your comment is noted.

Organization
Natural Res. Committee of the Lewiston ID + Clarkston WA Chambers of Commerce

Comment 3

The Clarkston Chamber supports proposed legislation and regulations for channel deepening projects that are supported by studies, which show dredging, or disposal of dredge spoils will not harm salmon or steelhead.

Response Your comment is noted.

U.S. Army Corps of Engineers Walla Walla District

O-102

Final DMMP/EIS July 2002



DACAGNESS

Tal (206) 403-1500 Fex (206) 403-1503

Expeditions is interested in low the Diestici manager its dredging program. If the District is not able to dispose of indegen natural, it will not be able to maintain the 14-foot chained becessary for sale knape operations on the Stake River. As things attend now, channel depths at certain locations are maintained only because reservoirs are kept above minimum operating pools. As sedimest continues to accuratists, we know that this situation cannot We would like to make a few co. Am: Jack Sands, Project Manager U.S. Army Corps of Engineers Walta Walla District 201 North 3rd Avenue Walla Walla, WA 99362-1876 Dear Mr. Sands:

We are therefore pleased to see that the District has developed a plan that is intended to overcome the current problems and provide a mechanism for a more efficient decision-making process in the finure. We support that effort, and we hope that the final DMMP/RIS will be approved in a timely manner.

The use of a Local Sediment Management Group (LSMG) to implement the DMMP would appear to be a sensible approach to finding consensus among the various relevant agencies with review authority. We believe this collaborative approach can work, and we certainly think it should be tried. We urge you to frost the LSMG process on getting the detection of a timely and conjectSedim maner as well as action it done this timely and conjectSedim maner as well as action it done to the

We are pleased with the emphasis that the plan places on beneficial uses of deedged masserial. One of the possibilities involves the use of deedged materials for entiring additional or improved fish shilar. We think that is an investing idea. Exertially considered placement of deedged materials (to create shallow-water benches behind the darm, for extraple) could well result in greater shallar diversity and beinger results could well result in greater shallar diversity and beinger results conditions for endangered fish. If said and fraved leadged from the stringlest channel could actually be used for the benefit of an igniting endangered fish, and the belogical benefits could be shown to wanted the costs. Anno his is amount we should do. It is a classic "verywin" situation, with sails operating depths for burge raffic and better habitat for

We are pleased with the contest and direction of the draft DADAP, and we support your efforts to serive at a consensus-based approach to managing deedgod materials. We auge adoption of a final Plan within a time frame that permits necessary channel manuferance deedging to be done during the 2002-2003 "fish window".

Director of Purchasing and Port Operations

CHANAP/EIS

Attn: Jack Sends, Project Manager U.S. Army Corps of Engineers Wells Walls District 201 North 3rd Avanus Wells Walls, WA 99382-1876

98362+1876 25

Blobbuttalineibertlatibublistamallati



Tal. (206) 382.9693 Call Place: (206) 499.9212 Fun (206) 362,9694

4.C. E.

Organization Lindblad Expeditions

Comment 1

We urge you to focus the LSMG process on geting the dredging done in a timely and cost-effective manner as well as getting it done with environmental sensitivity.

Response Your comment is noted.

Organization Lindblad Expeditions Comment 2

If sand and gravel dredged from the navigation channels could actually be used for the benefit of migrating endangered fish, and the biological benefits could be shown to warrant the costs, then this is something we should do.

Response Your comment is noted.

Final DMMP/EIS July 2002

O-104



December, 20, 2001

Dachaff / E1S
ATTN: Juck Sunds; Project Manages
U.S. Army Corps of Engineers
Walle Walla District
201 North 3th Avenue
Walle Walla, WA. 99362

Gentlemen

We would like to make comment on the Walls Walls District's Draft Dradging Materials Plats / Environmental impact statement. As against sphemeut of our position, while we believe that dradging integrals should be takinosed of this gravitamentally and economically responsible manner, the decision making moress of these accomplish this should never impede the everall objective of instring moress of these accomplish this should never impede the everall objective of instring the review of these accomplish this should never impede the everall objective of instring within the Walls Walls District is on held until the Army Corps of Engineers can operate under a National Marine Fisheries Service approved plan. As it stands now, channel depths at certain locations are being maintained only because reservoirs are kept above minimum operating levels. As we all know, this situation cannot go on indefinitely as each annual fresher brings additional sediment into the mavigation cleaned. Without the reamption of Dredging, we will ultimately less the ability to rules pools high enough to maintain channel depths.

On a related note, we would point out that if cargo volumes fall because pool depths become too shallow, it will appear flut it for State River Projects are jets yuliuble to the transpiration flut flut five year review of a heraching determination becomes more inventible to those supernices and sco-terminists who advocate for their removal.

ocerely yours,

Dixon Snaver
Vice President / Shaver Transportation Cor

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4900 N.W. Frant Avenue • Portland, OR 97210-1104 • RO, Box 19324 • Portland, Oregon 97266-0324 Office (503) 228-4850 • foil Free (846) 228-8650 • Disporten (603) 228-8647 • FAX (503) 274-7098

Organization

Shaver Transportation Company

Comment 1

disposed of in an environmentally and economically responsible manner, the decision making process of how to accomplish this should never impede the overall objective of maintaining the navigation channel. At this time. .. all maintenance dredging within the Walla Walla District is on hold until the Army Corps of Engineers can operate under a National Marine Fisheries As a general statement of our position, while we believe that dreeging materials should be Service approved plan.

Response

Your comment is noted. Maintenance dredging was not on hold pending NMFS approval, but rather the completion of a programmatic plan for long-term dredged material management. NMFS has issued a Biological Opinion finding that the proposed maintenance dredging and dredged material management would not cause jeopardy to endangered fish stocks.

Organization

Shaver Transportation Company

Comment 2

We would point out that if cargo volumes fall because pool depths become too stallow, it will appear that the Snake River Projects are kess valuable to the region, and the free year review of a breaching determination becomes more favorable to those agencies and eco-terrorists who advocate for their removal.

The purpose and need for the DMMP include maintenance of the authorized navigation channel in the lower Snake River and McNary reservoirs. Section 1.7 of the DMMP/EIS provides the economic justification for the plan. It is the Corps' objective to evaluate alternatives that are consistent with the purpose and need and in compliance with its regulations and guidance for dredging and dredged material management. U.S. Army Corps of Engineers Walla Walla District

O-106

Final DMMP/EIS July 2002

January 7, 2002

Li. Col. Richard P. Wagenaur
Department of the Army
Walla wall District, Corps of Engineers
ATTN: Dredged Material Management Plan
201 North Third Avenue
Walla Walla, WA 99362-1876

Re: Final Comments of the Save our Wild Salmon Coalition on the Oradged Material Management Plan Draft Environmental Impact Statement

Dear Lt. Col. Wagenaar:

This letter is written by the Save Our Wild Schnon coalition and its undersigned member organizations (collectively, "SOS") in order to comment on the Draft Environmental Impact Statement ("DislS") for the Drodged Material Management Plan ("DMMP") prepared by the U.S. Army Corps of Engineers ("Corps"). The DEIS analyzes actions to be taken by the Corps to dredge the States and Clearwater Rivers and determines compliance with the National Environmental Policy Act ("NEPA").

SOS appreciates this opportunity to comment on the Corpa' DEIS. With a combined individual membership of 6,000,000, SOS is a coalition of more than 50 sport fishing commercial fishing, and conservation of which seek restoration of wild salmon stocks throughout the Pacific Northwest to hartly, sustainably harvestable marbers. SOS previously submitted comments on an environmental assessment ("EA") on a short-term dredging plan in November of 2000, a plan that the Corps never carried out to SOS! knowledge. Those comments are hardey incorporated by reference. Additionally, SOS has reviewed and supports the comments submitted by the Nez Ferce Tribe on this DEIS.

SOS, like several other interested parties, bud requested an extension of the comment deadline for this DEIS. Pursuan to an agreement reached between SOS staff person Aime Westler and a member of your staff, SOS submitted draft comments on the DEIS on the original January 7, 2002, deadline. As agreed, SOS is bereby submitting final comments on January 18, 2002. Thank you for your cooperation with regard to this extension.

General Comments

The DEIS is inadequate in many respects, and the Copy' preferred alternative needlessly threatens to harm imperited salmon and steelhead inhabiting the Columbia-Saike rivers. In this document, the Copys provides four virtually identical afternatives involving substantial in river

Jenuary 7, 2002 Page 2 dredging and levee construction with various kinds of sediment disposal. Non-dredging (or reduced dredging) silentatives, which would be safer for fish, are not analyzed or considered. SON regions that the Corps continues to move absent with a "business as samal" approach to its goal is no pursue the Corps continues the marine changes are required. Indeed, the Corps states that this is no pursue the lowest-cost alternative that does not violate federal curronmental law. This is hardly a lofty standard, yet one that he actions analyzed in this DEIS still fail to meet DEIS RAZ. "Business as issual" has brought these mighty flat runs to the proliptes of this thoughtful approaches are required. This DEIS falls to subhist this thoughtfuless.

One of the more disturbing features of the Corps' plan is that it entirely dismisses dambreed scenarios, which would obvine the need for expensive and rary mangatum decigning and stree scanings. Which would obvine the need for expensive and rary mangatum decigning and stree scanings. Even though the Corps recently antonneed that it would pursue a non-brach managament alternative in the short term, the question of breach is far from manyer. And only are several judicial challenges to federal river management orgoing, but the National Marine Fitheries Service's ("PMFFS's") 2000 Biological Opinion govers wherein dant breach may be required in 2003 -2005 if conditions warmat. The Corps should not pretend that this eventuality is not a real cross and should explore the relative benefits of alternatives to continued harmful and expensive and erelging. If nothing ealse, the Corps should not be moving aband with a major long-term project with serious impacts to equalic species until a final decision on the moving aband with a major long-term project with serious impacts to equalic species until a final decision on the major busy events.

The DEIS Presents in Inadequate Renge of Alternatives.

NEPA requires that an EllS contain a discussion of the "alternatives to the proposed process." 42 U.S.C. § 101(2)(C)(ii). The discussion of alternatives is at "the hear" of the NEPA process. 40 C.F.R. § 1502.14 in Dec CRQ regulations require the agency to "frijacrously explore agency to "frijacrously explore agency to exceed a continuous agency to "frijacrously explore agency to recommended courses of action in any proposal which involves muscolved conflicts concerning allematives to recommended courses of action in any proposal which involves muscolved conflicts concerning allemative whithin the "salue and scope of the proposal agency Colifornia v. Block. 690 F.2d 1508, 1519-20 (9th Cir. 1992). A federal agency Colifornia v. Block. 690 F.2d 753, 761 (9th Cir. 1982), "artificient to permit a restored choice." 69 this proposal action which we Velley Childrens Council v. Responsal Fouriers. 833 F.2d 810, 815 (9th Cir. 1987), 12st 61 61 the failure to consider all contrainers alternatives to fail to the adequacy of an agency's NEPA unexamined alternative to fail to the adequacy of an agency's NEPA unexamined alternative traders as an environmental impact statement inadequate.")

Moreover, NEPA requires that the EIS contain a "no action" alternative. 40 C.F.R.

January 7, 2002 Page 3 \$1502.14. The no action alternative must be "considered in detail," Alaska Wildamess Recreation and Tourism Ass is v. Morrison. 67 F 34 723 (9th Cir. 1995); githe Bob Marshall Alliancev. Hodgl, 822 F 24 1223, 1228 (9th Cir. 1988), and it "serves as the benchmark by which the effects of all action alternatives are measured." Id. at 730. CEQ guidelines explain both the import and the necessity of the "no action" alternative. "The regulation require the study is of the no action alternative grant If the association and redect legislative command to ags. This analysis provides a benchmark, enabling decisioomakers to examper the magnitude of environmental effects of the action alternatives... Inclusion of such an analysis in the EIS is necessary to inform the Congress, the public, and the President as intended by NRPA." Regulations.") (emphasis added). "Forty Mont Asked Questions Concerning CEQ NEPA.

Clearly, the Corps has failed even to pay lip service to these fundamental requirements of MEPA. Instead, it has presented four virtually identical alternatives that differ from each other in only the moral integrated respects. The three "seison" alternatives all call for equivalent amounts and methods of fundamental responses the three distincted levels along the Stake River. The differences between the alternatives relate exclusively to the method of disposal of diegoesl, and Alternative 4 proposes in-river disposal, Alternative 3 proposes upland disposal, Alternative 3 proposes upland disposal, Alternative 3 proposes upland disposal, and Alternative 4 proposes to establish a process under which disposal decisions are nach on a case-by-case basis, but that will litely include at least some in-river disposal as called for in alternative 2. This is hardly a sufficient scope of different alternatives no firs a reasoned disposa, about meaningful consideration of bon-deeding or reduced disposal excellent alternatives, the DERS is fatally flawed. Even more transicably, the Corps compares these actions as a "no-action" alternative that is listly framally indistinguishable to all of the others, Clearly, a "no action" alternative that involves as much "to-tom" at this one is invalid to mose the purposes action as a this one is invalid to mose the purposes action as a this one is invalid to mose the purposes action.

The Corps failed to evaluate non-droiging (or rethood droiging) atternatives such as lighter burges or reduced commodity shipping. [The Corps present the Congressional authorization to pursue dredging. Set DES 1.5. as if it recourse that the Congressional list with the congression of the case. Congress supported dredging but did not require. Even if the did his does not mean that the Corps should ignore a non-droiging alternative, at jeast for comparative burgoes as a "no action" alternative. See 50 C.F.R. § 1502.14(6) (agency must include "reaconable alternatives not within the junsification of the lead agency"). The Corps also fails to require the option of threaching the four Lower Shake Dams, which would have substantial into his little. Restoration of the natural river hydrology is the most alteritive means to restoration and long term accumulation of sediment in Lower Chante Lake are and reture flooding rists to Lewiston without continue of confirmed a level of lite year. Subsamilial dradging could be avoided at least in part by imiting barge traffic to non-summer months, when river flows are all lights. There is nothing

See 3

See 7

Jenuary 7, 2002 Page 4 about Compress's authorization to facilitate burge traffic that necessitates year-round navigation, particularly where the costs to sukmon are so high.

A further example of the DELS' myopic focus on internive dredging is its failure to meaningfully seddrage methods to reduce seddragit input into the forest which would reduce and the seddragit input into the forest which would reduce a subsensity of first which would have a subsensity of first can reducing seddragit seddragit main tand use modifications would have a subsensity of first family and forest management practices were used upstream, dredging the confluence areas of the foats and chearware Rivers would be required less often, thus reducing the environmental imparts of dredging and disposes were need upstream, dredging fire for the species by reducing harmful dredging, and by improving fish sublist and water qualify elsewhere in the haals. Myutriously, however, the Corps rejects any oless why the Corps rejected sediment reducine simply because it would not, by inclif, completely salve the problem. Certainly, this approach would reduce the need to dredge, or allow the Corps rejected sediment reducine simply because it would not, by inclif, omplified when the problem. Certainly, this approach would reduce the need to dredge, or allow the Corps rejected sediment reducine from an approach to the corps in dredge with less frequency. Even if the Corps is not a land management reduced sediment input. Regardles, NEPA requires consideration of reasonable alternatives like the Corps to evaluate opportunities to work cooperatively with state, federal and private land events and events in the first input management dredging.

Another alternative the Corps should have considered is breaching Lower Oranic Dan ["LGD"). LGD was designed to work in conjunction with the planned Asolia Dan above—Lewiston, which would have significantly reduced the amount at sediment flowing into Lower Granic Lake. Sex App. A. at A-19 (Asolia Dan "would have trapped the majority of the mighting socianost on the Scale River.") For various reasons, the Arotio Dan was never built, income this, and the fact that without designs and existing levees, Levelston probably would be flooded. Induced, the Corps server discloses that it is likely that within the 20 year life span of this probet, levees higher than three fact will be equived by this continued inflow of sediment. As the DEIS recognizes, higher there will require substantial re-engineering of roads bridges and so on, and hence will be wery expensive. Branching LGD could againfamenty one leading problem, at substantially lower cost. The Corps should evaluate this alternative.

The DB18 Ismorga. Discounts, or Mistenspents A Wide Variety of Environmental Impacts

There are other opportunities that may satisfy the Corps goal of particular channel dapties besides dredging, such as the idea of "sediment pass through." The Corps should more actively seek out these kind of alternative avenues.

January 7, 2002 Page 5

Associated with Dredging.

The fundamental purposes of NEPA are to guarantee that; (1) federal agencies take a "hard look" at the consequences of their actions before the actions occur by ensuing "that the agency, in reaching its decision, will have available, and will carefully consider, dealled information will be new evaluable, and will carefully consider, dealled information submitted at a concerning significant evirtonmental impeats." Robertion 2. Methors Valley Chitzens Council, 400 U.S. 322, 349 (1989); and (2) "the relevant information will be made available to the larger ancherot that may also play a role in both the decision-making process and decision makers and public of reasonable alternatives and environmental impacts); are also decision makers and public of reasonable alternatives and environmental impacts); are also flowers to eliminate damage to the environment and thoughers' by focusing Government and public attention on the environment effects of proposed agency section.") In abort, NEPA, requires federal agencies to look before they, leap.

To satisfy the requirement that it alse a "hard loot," at the environmental consequences of its actions, an agency must engage in a "reasoned evaluation of the relevant factors" to ensure that its ultimate declaration is tanly informed. Greenbeare Action v. Franklin, 14 F.34 1324, 1332 (9th Ctr. 1992). The DEIS must be searching, debatied and comprehensivity, "[general takements about 'possible' effects and 'some risk,' do not constitute a' hard look' absent a justification for United States Forest Service, 137 F.34 137, [330 (th Ctr. 1998). An agency's faithre to include and analyze information could not be provided," Neighbox of Caddy Mountain, a include and analyze information that is important, significant, or essential readers as EIS inadequate. Without such detailed information, there is no way for the public or the agency to defequence. Without such detailed information, there is no way for the public or the agency to 465, 495 (E.D. Cal. 1980), aff d sub nom California v. Boles, 696 F.24 753 (the Cr. 1982) (by single to disclose key data, "the Forest Service effectively undersuit the twin goals of environmental statements: informed decision-making, and full disclosure").

It is hence of entireal importance that an EIS be factually accurate and well supported, 40 C.F.R. § 1502.24 (agencies must ensure the scientific integrity of an EIS). An agency's failure to use the most up-chair information and tools available undermines the public's confidence in the EIS and renders it legally defective. That Village of Akugar, Model, 869 F.2d i 185, 1192 inclusion of erroneous information, violates the for emission of sacertainable facts, or the V. Eggs, 989 F.2d 699 (Hi Cir. 1993) (agency cannot rely on "stale" science or "ignore repulsible scientific criticism"), Coleman, 521 F.2d at 676 (rejecting agency position that uncertainty is grounds for not disclosing potential impacts). While "perfect" knowledge is not required, the EIS at least is required to disclose data gaps and the basis for assumptions. 40 C.F.R. § 1502.22 (agency shall make clear where information is tradequate or unavailable).

Jameny 7, 2002 Page 6 The DERS fulls far short of these strict standards. Instead, it presents averaging generalizations and unsupported issections, and promises cavivounnental benefits that see either unsupported or actively contradicated by the available science. The Columbia River later-Tribal Fab Commussion (VSRIFC) and other emilies have alterity naised extensive questions about the harms and benefits of dangling and in-tiver disposal, questions that have not been resolved or even addressed in his document. SOS believes that deedging and in-tiver disposal will in the present scinous rides of harm to finh species abready greatly imperiled by past river evaluated in the DERS.

12 Por example, the DEIS largely discounts the impacts of the project to ESA-listed fish based on the premise that relatively few fish will be in the river during the time that dereging will actually occur. SOR questions whether the conclusion is correct at all. WDFW studies indicate that a large projection of juvenile fall chinode verwither in the Snake River reservoirs, and bence can be harmed by dredging. Dredging in the past directed and killed listed fall chinode derevinter in the Snake River reservoirs, chinode alevirs. Even if the numbers of affected fath are low, which SOS digustes, many salmon species are already so imperiled that harm to even a few, is a matter of serious connectures may occur at different times of the year. Sag App. F. at FA-10 (MAIFS believes that the possibility of carralmout of listed fish or fish agas does exist, and is concerned about absence of monitoning plan to prevent such authainment at dredging locations.)

Byon if it were true that few 11sh are in the river during the time when drodging is proposed, the Corps ignores several important considerations. It is not at all clear that impacts quiltibly dependance with the power of the considerations. It is not at all clear that impacts quiltibly dependance resulting from dredging and fravive disposed may have longer leaving impacts on fint and fait habitat than what is acknowledged in the DEIS. For example, the DEIS decines on fint and fait habitat than what is acknowledged in the DEIS. For example, the DEIS sentially, and fait habitat than what is acknowledged in the DEIS. For example, the DEIS sential now sediment planes will not adversely impact sith habitat downstream as it adverse effects on bouthic invertebrate production that are long-leating. In fact, studies show that The DEIS ignores there impacts, which could harm imperited fish species diversity in drodged sets it sideom achieved, even for many years after activity. For the Child ignores there impacts, which could harm imperited fish species temporally disant from the dredging when in an injuried action includes a vague provision to allow dragging when fish are migrating where some undefined "energency" requires the requirements of provision can have significant impacts. Yet the DEIS provides no guidance on what situations environmental consistence of a perceived financial "energency are substitute an "energency," what steps could be taken to avoid our, and what straining straining straining sense.

50S strongly disagrees that commercial or economic harm can constitute an energency that straining straining

James 7, 2002 Page 7

16

The DEGS largely dismisses the potential for dredging to six up toxic wastes contained in sediments. SOS believes that the nick personned could be far greater than those actnowledged by the DEGS. Previous data has showed sediment samples contaminated with dixxin and petroleum products, substances that will be activated in the river during dredging. Industrial facilities like the Pottach facility contains to pour out dixxin and massy other taxies into this area. Even so, this data is incomplete and out of date: the Corps has not been able to point to any The Corps should provide much more detailed information, including the results of recent compacticative sampling and correspond to a seas to be dradged. Moreover, the Corps should provide more detailed information on how it insteads to monitor the detailing to manue that toxics "hot spots" don't cause tubites degradation. Its statement that it will "visually" maperst ongoing deteging for signs of contamination is not credible. Forthrightly addressing the toxics issue is particularly important where sediments will be used to attempt to create shallow more recent tests that substantiate its contemion that sediment toxicity is of no concern. Similarly, the science governing thresholds of harm has advanced significantly in recent years. water habitat for salmonide.

17

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The DEIS assumes, without any analysis or support; that in-river disposal will create effective "habitat" for salmon and other species. While SOS supports valid salmon habitat restoration measures, we are noncerned that the bearelist of in-river disposal are overstand and the risks have been ignored. SOS is concerned that in-river disposal is being pursued prumarily for economic, not environmental, rasons. Other entiries have already submitted science that seriously questions the Corps' conclusion that in-river disposal of dredged materials will provide any magnifical tealationships, contaminate shallow areas with exist, and increase harmful sedimentation. The DEIS fails to address these concerns or provide any other support for the Corps' conclusion that in-river disposal vill benefit fish. Indeed, all of the evidence cited by the Corps cornea from one of its own consultants. Before the Corps embarts upon auch a risky and expensive project, more evaluation on the risks and benefits should be provided.

What is even more remarkable is that the DEIS proposes a 20 year multi-component dredging and disposal plan without explaining how the Corps intends to incorporate or deal with monitoring, adoptive management, or changed circumstances. Certainly, given how little is smoorn about the impacts to fish and fish habitet associated with this projet, super provision for monitoring results and changing direction as required should be included. To the extent that the "Local Sediment Management Group' could constitute such an adaptive management mechanism, much more information on standards needs to be included to ensure careful security

20

² Evidently, SOS is not alone in this concern. See DEIS App. F. at FA-10 (NMES Areas of Concern) ("INJo recent studies have been conducted to determine the continued and long-term viability of these sites as beneficial to endangered sulmonist.")

James 7, 2002 Page 8

of results and cantious adaptation to protect natural resources. Adaptive strutegies linked to monitoring could affect frequency of dredging, minimize costs, and minimize ecological

equatic habina when compared to nabural conditions. The Corps must do a better job of evaluating the pros and cons of relying on this kind of "techno-fir" instead of less densities alternative. Moreover, the Corps should dispute whether leves construction is even necessary in light of the extensive and highly conservative Book coince management available in the upper State has a minimum sualtyze whether it is necessary at all. Finally, as noted above, the Corps should at a minimum sualtyze whether it is necessary at all. Finally, as noted above, the DEIS fulls to disclose that it is highly likely that the proposed three foot lever increase will prove insdectate during the life of this intelests and that further expensive increases will be The DEIS provides one very short paragraph on the environmental impacts associated with levee construction, which is whelly inadequate. The DEIS fails to discuss potential impacts to the river ecosystem associated with constraining flood waters within leveer, rather than letting them statistically into floodplains. It is silent on posential aquatic risks associated with construction and maintenance of these structures, which could be anticipated given their practically to the river. SOS believes that internative technological fixes like leves pratern a bost of potential library to S 22 21

The Copys originally proposed a two-dimensional model analysis of sediment transport in the Snake and Clearwater Rivers that would have given a more accurate understanding of sedimentation issues. However, the Corps elected to diseard that analysis in favor of an interior obselimentsional model because of time constraints. If at A-23. Additionally, some of the studies are over a decade old, and have not been updated. Id. A-12. (Additionally, tome of the attentially driven by sediment transportation issues, \$0.8 objects to use of the one-dimensional scientifically sophisticated modeling can be schieved. Lastly, by the Corps' own admission, the hydrologic modeling used to determine sedimentation locations, volumes, and rates in this DEIS is inadequate. SEE App. A, at A-19-23. 77

The DEIS' Discussion of Complative Impacts is loadequate

NEPA requires a cienulative impacts analysis to: (1) cutalogue past projects in the arra; (2) assess the cumulative environmental impacts of those projects with the proposed project; and (3) analyze the additive cumulative impact of all reasonably foreseeable Federal and non-Federal school, whether or not they have schully been proposed. See Ciry of Chimil-By-The-Ses v.

Additionally, there is very little discussion of inflowing boundary condition, which is the druging process in the sediment model and essential in evaluating the frequency of dredging, risks, undertainly in model predictions, and postable range of responses in different water years.

January 7, 2002 Page 9 United States Dept's of Transp., 123 F.3d 1142, 1160 (9th Ctr. 1997) (rejecting cumulative impacts analysis that referred generally to other past "development projects" and did not discuss the additive impacts of foresteable fature projects); Etilofson v. Alexander, 772 F.2d 1225, 1243 (3" Ctr. 1985) (agency must consider reasonably foresteable actions regardless of whether they have yet formulately been proposed). Furthermore, NEPA requires that a cumulative impacts analysis provide "some quantified or detailed information" because "(w)lithout such information because "(w)lithout such information, that is required to provide." Cuddy Momitain, 137 F.3d at 1379; Camel-Eby-Tha-Ses. 123 their comulative impacts).

The DEIS's skender section on cumulative impacts is weefully inadequate. The DEIS ignoces the sweeping range of direct and indirect harms faced by salmon migrating through this region of the Columbia and Sinkle Rivers, including poor water quality (including elevated remperatures and discolved oxygen), inadequate flows, habital degradation associated with land use, inadequate flow and upstream and downstream passage. Similarly, multiple industrial entities, such as the Potalish paper rail in Lewiston, routinely emit roxies and other pollutants into these rivers. Taken together, containous in the Columbia and Snake River mainterns have brought those species to the brink of extinction. Operations of the PCRPS is an exceedingly complex process governed by multiple documents and entities, including the 2000 fiely. At times, moreover, agencies depart from BiOp tequirements in order to prevent financial

The DEIS, however, is entirely silent on hydrosystem management and this sweeping range of harms presented to migrating salmonids. Rather, it includes only other dredging selivinites, and relicensing, and "dan drawdown scenarios" in its catalogue of other actions that could result in cumulative effects. The narrow maps of activities considered by the Cops in its cumulative impacts. For example, on learner logally defactive. Even within these cumulative impacts. For example, on learners 13,2002, the Cops finits to properly evaluate cumulative impacts. For example, on learners 3,2002, the Cops shouried a new biological assessment to NMES covering ity proposal to dredge and deepen the 103-mile stretch of the Columbia River below Portfund, Oregon. On that same day, the Cops announced that it would also prepare a supplemental EIS for the project. This lower Columbia channel deepening project also we including many of the same stocks impacts of the adverse impacts that it would have on salmon — including many of the same stocks impacts of dredging the Snake River without even mentioning the massive dredging project on the lower Columbia. The omissions of all of the other problems fish face in these rivers are as terubling as they are unlawfil.

In this document, the Corps proposes a 20 year dredging and in-river disposal plan that, SOS beliaves, could have significant adverse impacts to species already seriously imperiled by a

31

Page 10

variety of river management and habitat degrading activities. The science is quite clear that conditions need to be improved, not further degraded. Even if the risks presented by this action are small, which SOS does not agree is this case, this project could well be enother insult that, cumulatively to all the others, makes recovery of these pretels even more difficult than it is today. It is for this reason that NEPA requires a rigorous malysis of the cumulative effects of proposed action. The DEBS's cumulative effects analysis does not add in anyone's evaluation of the that the same that the same analysis does not add in anyone's evaluation of

The Description and Comparison of Costs is Flawed

The DERS falls entirely to justify the meed for the project. It does not disclose the current condition of the navigation chemist or describe various alternatives to continued deedging. For example, lighter barges may obvinte the meed for some dredging, an option which is entirely ignored in this document. While the DERS describes the economic benefits of dredging. It falls to analyze the economic impact of reduced or so dredging. Remarkably, the malrysis of the economic costs and benefits at man or a simplistic chance between burging as it exters today, and obserging altogether. See DERS 1-11. The Copps has falled to make the near that reducing of eliminating dredging will require the elimination of all rather than some, barge traffer. SOS believes that they are the total elimination of all rather than some, barge traffer. SOS bulleves that barge traffer may be able to stage to shallow randiging to certain times of year. The start choice between "business as unal!" and no horging at all shows the document in favor of dredging and presents a highly incomplete picture of alternatives.

The Preferred Alternative is Poorly Defined and Risky,

After pretenting four largely identical alternatives, discounting most of their rists, and overstating potential cuvircumsmual benefits, the Corps chooses Alternative 4 as in preferred alternative As navicumsmual benefits, the Corps chooses Alternative 4 as in preferred acceptant that it storied. Alt 4 is virtually indigitably mechanism other three, with the exceptant that it provides all facility indigitably mechanism the disposal options. While SOS is not necessarily opposed to a featible or adaptive process for making disposal determinations. Balled to provide any guidance, restrictions or similaridations and provide any guidance, restrictions or similaridations. In the preferred alternative, this group will have virtually uncabined discretion on where and frow in make disposal decisions and what standards should apply. It is quite spoortulaive that the Corps will solicit sufficient interest in using dredge spoils for fill or quite succession, that the Corps will solicit sufficient interest in using dredge spoils for fill or quite uses, leading to the conclusion that this is highly likely to result in high levels of in-iver disposal. Clearly, the DEIS cannot properly evaluate and analyze risks when the proposed action of success the Corps to provide greater Corps to consult with and to include the public, including conservation, fishing and ribal groups when making disposal decisions are to be make. Sols also urges the Corps to consult with and to include the public, including conservation, fishing and ribal groups.

2

January 7, 2002 Page 11

NEPA analysis and ESA consultation.

The DEIS Misstates the Purpose and Need

The DEIS defines the purpose and need for the proposed action with three components: a) to develop and evaluate "discussive programs" to maintain the navigation channel in the Lower Stake River and McNary Reservoir, b) to develop and evaluate alternative measures to maintain the flow conveyance of Lower Granie reservoir through 2074; and c) to develop and evaluate alternative programs of managing dredged materials. DEIS at 1-2. Leaving saids the question of whether or not the Corps has succeeded in presenting programs that are "alternative" to one unother in any meaningful way, <u>2005 believes that</u> the emire purpose and need is far foo

32

As noted above, Congressional authorization to maintain a navigation channel to a certain depth is not to be confused with a requirement that the Corps do so. In fact, as the Corps is well may conflict with one another. The ESA's mandate that the Corps after no action that will propagation first appears or adversely modify critical babinat is manufagum, and in SOS's view, requires that the Corps pursue dan breach scenarios. Given that, the purpose and need for this DES should be focused more broadly on transportation of products from Levision Government. Burga navagation is not an office in likely to principle in exports, and from Levision. There are multiple different ways to transport products that don't require the fall navigation channel, or even any burge navigation at all. This DEIS should evaluate the relative modific costs, and environmental risks presented by different transport products that don't require the relative modific costs, and environmental risks presented by different transport promoters and the public can have a complete picture of the situation.

Dam Management To Protect Fish and Dredping Are Inserticably Connected Actions and Hence Should Be Considered in a Single EIS.

This DEIS, at its heart, involves management of the Lower Snake River to allow barge alwaygation. According to the DEIS, dredging and levee construction are the only available alternatives to address the problems of endinent build up associated with river management and dam operations. The choice presented, however, is a false one. As discussed above, dredging would not be required if dam breach was considered as an alternative. The DEIS assumes that dam breach is not an option and hence fails to comider it. But the document on which this assumption is presumbibly predicated, the December 1999 Draft Lower State Salmon Migration the environmental impact Statement ("Migration DEIS"), is completely silont on the environmental impact sate contact with dredging. Both the Dredging DEIS and the Migration DEIS involve the exact same issue; bow to manage the Lower Statek River dams in such a way to comply with various laws and to minimize impact to impactled

James 7, 2002 Page 12 salmonids. However, the Corps has chosen to divorce dem management from dreiging and contemplate them in two separate NEPA document, each of which ignores the testes raised in the other. This is contrary to common tense and violates NEPA.

The law is quite clear that actions which are connected or curralistive to one another must be considered in the same NRPA document. See 40 C.F.R. § 1506.25. CEQ regulations dictate connected in the same impact statement. Actions are connected if they: (i) submatchally trigger other actions which may require environmental simple connected if they: (ii) submatchally trigger other actions which may require environmental simple connected if they: (ii) sate interdependent parts of a larger action and depend on the larger action for their justification." Id at § 1508.25(a/1); see also id a § 1508.25(a/1); we cannot thive be action where cannot think in the factor is a factor in the same impact statement.")

According to the Ninth Circuit, "connected or cumulative actions must be considered together to prevent an agency from 'dividing a project their multiple actions, each of which individually has an injustificant action where whether actions enough they connemplating the largest defined impact, which collectively have a substantial impact, which is a single body NIEA document. In Thomas, the court found that the timber sales could not proceed visited industry which are sales in separary NIEA document. In Thomas, the sourt found that the timber sales could not proceed were required to be considered to getter. See also Service violated NIEA document. In Thomas, the sourt found that the timber sales could not proceed were required to be considered to getter. See also Service in NIEA document. In Thomas, the Court found that the timber sales could not proceed were required to per could contain an addition program and flow improvements in same EIS because each one could contains

This situation clearly raises as issue of connected actions. Ontology dum massignment as governed by the Migration DEIS is inextricably related to the dredging. "habitat creation" and massignment of the dama is discussed in the Dredging DEIS. Indeed, without continued dredging. Continued dredging contemplated in the Dredging DEIS would become virtually impossible. Continued sediment build up would prevent anyignion and drastically after flow patterns through the dama. Similarly, the dredging and leve construction, as well as mitigation measures like bablata "transiton," would not be required if the dams were breached. Clearly, dam management "cannot or will not proceed unless other actions [namely, dredging] are taken," any of C.F.R. § 1503 25(a)(1)). Similarly, dredging is an "unterdependent part of a justification." Id. 1508 25(a)(1)(iii). Thus, this situation is analogous to Thomes and Save the Wo Actions in question could such proceed independently to good effect. Accordingly, the Corps

amustry 7, 2002

has violated NEPA by considering them separately,

dredging in employment section). In fact, the Corps goes so far as to raise numerous concerns about sedimentation/furrioidly issues associated with dam breach, but then ignores the same issues altogether insoften as they relate to the dredging that it necessary in the absence of breach. See if 6.3-2 through 6. Given the risks and costs associated with perpetual, organized of cheach, escaped to the comment period on the Migration DEIS pretends that they do not exist.

Although the comment period on the Migration DEIS has closed and the Corps has announced a preferred alternative, its failure to consider this important issue in the final EIS will trader it fatal. Accordingly, SOS requests that the Corps take the time to address the costs and inviganmental risks associated with dredging in the final Migration DEIS belone a ROD is finalized. no-breach decision. This is two despite extensive discussion of navigation issues as well as the environmental risks presented by sedimentation, unduity and toxics. See, See, Migration DEIS at 4.2-3 (erosion and sedimentation); 2-18 (navigation); 4.4-14 (sediment and turbidity); Ch. 4.9 (discussing transportation and navigation viltious mention of diredging); 5.13-6 (no mention of raised in the dredging DELS. While the Migration DELS purports to fully evaluate the costs and benefit of dam breaching relative to other dam management sonarios, it falls to mention the costs and environmental risks presented by continued engoing dredging scrivities required by a What is oven more remarkable is that the Mignation DEIS it totally silent on the tenues

35

The Corps Has Failed to Comply With § 404 of the Clean Water Act.

The Corpa' flawed NEPA analysis also infects its responsibilities to comply with the Clean Water Act ("CWA"). Like NEPA, the CWA requires that, before proceeding with projects allocing water of the United States, the Corps conduct an analysis of the project's potential impacts. The CWA seeks to "rattore and maintain the chemical, physical, and biological integrity of the Nation's waters." 33 U.S.C. § 1.251(a). One neclanation through which it serves these ends is by probabiling the divelarge of pollutant into anyighble waters which it serves these ends is by probabiling the divelarge of pollutant into anyighble waters which it serves these ends is by groubling the divelarge of pollutant into anyighble waters which it serves the section 444 permit for the proposed dredging or leves construction distanteed in this DEIS. SOS believes that such a permit for the proposed the dging or leves construction distanteed in this DEIS. SOS believes that such a permit of interest review' in which, among other things, the doctsion whether to issue a permit will be based on an evaluation of the probable impacts, including currulative inpacts, of the proposed activity and its intended use on the public interest." 33 C.F.R. § 320.4(s/l). This public interest review also requires that "(jibe benefits which reasonably may be expected to accuse from the proposal must be balanced against its reasonably forenecable deriments." Id. Thus, just like NEPA, the CVA tequires the Corps to conduct a countercherance maiyaris of the impacts of deedgale and leves construction before those projects may proceed. The Corps' failure to do so in this EIS therefore not only violates NEPA, but also the CWA. See Sierra Club v. Singer, 693 F2A 937, 983 (5° Cr. 1993) (finanting

January 7, 2002. Page 14

that Cops." "Mewor" NEP A analysis "tained the [Cops!] penuit decision-making process." by preventing the "garafil weighing of all [relevan] factors" required by the public interest review).

Van Abbena v. Famell. 807 F.24 633, 643 (7th Cir. 1986) (Cops! reliance upon NEPA analysis's intecurate consomic information readered CWA public interest review similarly invalid). Only with knowledge in hand can the agency determine what best serves the public interest. This EIS does precisely the opposite.

In addition to having to analyze the effects of its proposed projects pursuant to NEPA and 10 CFR 5 230. These guidelines, and the Corps must evaluate impacts pursuant to EPA's 5 404(b)(1) guidelines, 40 CFR 5 230. These guidelines, and the states of the conditions of the factor of factor of the factor of factor of the factor of factor degradation". However, because the Corps has not made this important analysis swilishe for public review when the DEIS was issued, \$OS reserves the right to offer cumment on that document when it is released and hereby incorporates its comment on that document here. Regardless of the flaws in its NEPA analysis, \$OS wages the Corps to conduct in § 404(b)(1) analysis to include the rigorous evaluation required by the CWA so that the public and the decisionnaker may evaluate the Corps' proposal based on a full and accurate accounting of its impacts. 38 33

Endangered Species Act Issues

we believe that the BA falls to provide an adequate basis for meaningful consultation with the NARSS violating the BSA and its implementing regulations. SOS will cheely accumulate the resulting biological opinion ("BiDp") to ensure that it is consistent with existing documentation. 50S appreciates the inclusion of the Biological Assessment ("BA") with the DEIS, but and the best science.

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⁴The Carps may not issue any permit for a discharge that does not comply with these guidelines. 33 CFE § 320.4(a)(1); <u>Friends of the Earth v. Higts.</u> 800 F.24 822, 830 (9th Cir. 1986) ("The Section 404 permit process is governed simultaneously by Corps regulations, 33 CFE. Parts 230-29, and by EPA guidelines, 40 CFR. Part 230. Both sets of rules must be observed."). Thus, the duty to comply with the 404(b)(1) guidelines is distinct from the Corps' public interest review under 33 U.S.C. § 230.

muary 7, 2002

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Section 7 of the ESA requires any federal agency undertaking an action that may affect multiple species listed under the ESA has necessitated the 1356(a)(Z). The presence of multiple species listed under the ESA has necessitated the initiation of tensulation through the preparation of the BA that accompanies this DEES. The ESA mandates that the BA "whall proposed the potential effects of the action no listed and proposed species and designated and proposed critical habitat and determine whether any such species or habitat are litely to be proposed action would undoubtedly affect namerous listed sales to U.S.C. § 1536(c). This consultation with NMFS.

A BA provides the foundation for consultation and should supply NMFS with enough background data to enable NMFS to use the information in the BA, together with other relevant information, to formulate a BiOp on the proposed agency action. Unfortunately, the poor analysis of the actions proposed, the conclusory statements, and look of a cumulative effects inquiry in this BA fall far above of the ESA's requirements for biological assessments. The BA is largely acrepately and of the DESA's requirements for biological assessments. The BA is submonife. Unfortunately, just like the cursory analysis of the potential impacts to listed same flaws discussed above.

The BA roughly attention some effects of the proposed project on listed salmonids, but fails to discuss any detail on those effects or their long-term implications. In addition, the baseline of the current habitat for listed salmonids in the project area is not clicated; the thought discussion of the impacts of current insuspensent practices is a necessary and useful starting point for an adequate BA. That discussion is in sing from the BA but, standing alone, would not satisfy the more crucial requirement that has "be "benthate the potential effects of the action." So C.F.R. § 402.12(a). To be meaningful or useful to NMFS and to the poblic, the BA alternative actions.

In addition to these procedural flaws, the DEIS and the BA fail to fully address the florgardation of critical habitat associated with dreigning. Section 7 of the ESA prohibits any forestal are from that wull "result in the destruction or adverse modification of "critical habitat. The portion of the Snake and Columbis Rivers affected by this project have been designated as critical habitat for several ESA—listed salmonids. The BA largely disnuisars critical habitat considerations, however, simply because listed species will (for the most part) not be present in the area during dreigning. See App. F. F.34. The presence of listed species, however, is hardly the only relevant factor to consider in a critical habitat analysis. NMFS regulations

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⁵ Indeed, as described above, it is not oven the most relevant consideration for determining effects to the listed species themselves. There are say number of ways in which the dredging will directly and indirectly impact fish that are ignored in this section.

January 7, 2002

require that this unalyzis focus on whether the activity will result in "a direct or indirect alternion that appreciably diminishes the value of the errical habitat for both the survival and recovery of a listed species." So C.F.R. § 402.02. A proper analysis must focus on the value of the critical battat for future use in the recovery of the species, not —as the BA does here —solety on whether listed species currently willow the backets, not —as the BA does here —solety on place. Further, there is a flearth of enalysis on the over-wintering of sub-yearing fall chinook in the impacted area or fall chinook spewring in the initiaces that will be dredged 35milesty, the BA dismissies the impacts of toxic communication to the critical habitate by asserting that it will not stope to the self-matter area in the virtual survey or what standards will apply.

Consistency with Other Salmon Recovery Documents

Sec. 18

P

When the Corps' DEIS is viewed in the context of recent documents that serve as a basis for seinon recovery in the Columbia Basin; it becomes apparent that this document raminations or ignores much of the paidance outlined in these documents. This is especially clear in respect to the Federal Centure "document, Canagawallon of Columbia Basin; Salmen Recovery Strategy.

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The owerall premise of the Sakman Recovery Strategy states that "[i] is time for citizens, and special interests in the Columbia River Besis to collectively take immediate and sessions to subsuild the health of the Basia" (Excentive Surmary, 12). The DEIS ignores the issue of ensisting billist. This is particularly true in respect to the Corps' plan for the habitat. "Receipted materials for the purpose of creation of shallow water rearing habitat.

The Salamon Recovery Strategy emphasizes that there is a great used for information concerning mainteen habitat projects. Included is the need to identify responses of habitat improvements in large rivers-especially the Columbia River Basin-to deformine the relationship of the size of improvement to the size of improvement to the size of improvement (Salamo Recover Strategy, evaluation action plass that may lead to changes in ... identification of cause and effect relationships." (Vol. II, 21) The existence of such incretainshed does not occure poorly assessed relationships." (Vol. II, 21) The existence of such incretainshed does not occure poorly assessed importance of accommissing, and evaluation." (Ex. Salamasy, 5).

See 20 The proposed action for "beneficial use" as described in the DEIS does not incorporate this form of monitoring and evaluation with respect to the impact of the proposed project upon

f in any event, the BA formers exclusively on whether or not fish will be disturbed by "dredged mathrial removal action." Id. at F-34. The Corps does not inquire whether the habitat will be degraded by disposal of dredging apoils in the river.

January 7, 2002 Page 17 salmon and the environment. The Corps takes care to address monitoring of the engineering integrity of this project but largely ignores scientific credibility by foregoing actions to initiate the rigorous monitoring and interagency approach as mandated by the Rocovery Strategy.

The Corps continues to insist on proceeding with a large-scale habint project in an area of special informational needs, and many unknowns, without utilizing a scientifically credible process. The retail of not having a scientifically rigorous, coordinated effort is clearly describe in the Strategy. This tack of altherance "will not only reader any monitoring program useless, but will also undercut the importance of the management actions themselves." (Vol. 1, 55)

Conclusion

The Corps' recent announcement that it will not pursue breaching the lower Stake dams at this time did not contemplate many of the issues raised in this DEEs; the monetary expense and environmental consequences of centinually maintaining a navigation channel, over higher lovees, and the fact that LIOD is not engineered to accumunodate the influx of Sediment without Asotin Dam. While this DEES and decision process presents an opportunity for consideration of dam breach or other non-deciging alternatives, the Corps failed to take the opportunity. Instead, in presents a legally flawed and factually maniported justification for an expensive, long-term program to continue a "unknissi as usual" approperted to twee management. Instead of moving closer to a normative, natural river coopystem, as called for in the 2000 BiOp, the Corps continues to propose actions that degrade it. SOS urges the Corps to take a broader view of its legal responsibilities by giving adequate consideration to non-dredging alternatives and by properly disclosing the full costs, ecological and monetary, of its proposed action.

If you have any questions about these comments, or would like to discuss any matter discussed in these comments, please contact Jan Hasselman, staff counsel with National Wildlife Federation, at (206) 285-8707 ext. 105.

Sincerely,

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Pat Ford, Save Our Wild Salmon
Ion Hasselman, National Wildlife Federation
Bill Senivy, Idaho Rivers United
Rob Masonils, American Rivera
Jeff Curies, Trout Unlimited
Bill Arthus, Sierra Club
Lovenia Warren, Salmon for All
Glen Spain, Pacific Coast Federation of Fishermen's Associations

Page 18

and Institute for Fisheries Res Stawn Cantrell, Friends of the Earth



Field officer

Makes Tendents Asses efect Living Sector

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November 13, 2000

Walla Walla, Washington 99362-1876 Environmental Compliance Section Walls Walls District Carps of Engineers 201 N. Third Ave. Sandy Simmons

Dear Ms. Simmons

undersigned member organizations in order to comment on the Environmental Dredging (EA) prepared by the US Army Corps of Engineers (Corps) and released to the public October 13, 2000. The EA analyzes actions to be taken This letter is written by the Save Our Wild Salmon coalition (SOS) and its Assessment: Interim Lower Snake, Clearwater, and Mid-Columbia Rivers by the Corps to dredge the Snake and Clearwater Rivers and determines compliance with the National Environmental Policy Act (NEPA).

more than 50 sport fishing, commercial fishing, and conservation organizations River Inter-tribal Fish Commission and the Nez Perce Inbe are also on the EA With a combined individual membership of 6,000,000, SOS is a coalition of throughout the Pacific Northwest to sustainably harvestable numbers. SOS appreciates this opportunity to comment on the Corps' EA. The Columbia - local, regional, and national - which seek restoration of salmon stocks abmitting SOS hereby incorporates those comments by reference...

Introduction

home. At this point, the determination that these dams will remain in place for nastily written EA and Biological Assessment (BA) will not suffice to protect River require a wholly different approach to this process. The science clearly the long-term has yet to be made. The National Marine Fisheries Service conclude that the dams remain on a probationary status, waiting to determine Operation of the Federal Columbia River Power System. That analysis may whether other mensures can recover endangered salmon. In the meantime, a restore the endangered salmonids that call the Snake and Clearwater Rivers supports that removal of these four dams is a necessary part of any plan to The science and politics that surround these four dams on the lower Snake (NNIFS) is in the process of completing its Biological Opinion for the hese fish from the affects of dredging.

The Corps is authorized to provide for navigation on the Snake River, the purpose of most of this that the channel is currently at ten feet, with fourteen feet being optimal for navigation. There is delay any dredging while the future of the four dams on the lower Snake River is debared, as this no identification or discussion of what impacts, if any, the current depth has on barve traffic, what difficulties this may cause, nor any aconomic effects in upstream ports. Simply because a fourteen foot channel is optimal does not mean that it is necessary. It would seem prudent to project. That purpose was supported by no justification for this project in the EA. It does state proposal may cause unnecessary harm to listed salmonids.

The Corns has chosen its preferred alternative in this EA hazed in large measure on cost. Other disputal methods were desmed too costly, given the Corps limited budget. The Corps can not discount certain options based solely on cost; if two alternatives have equal costs and benefits, only then can one be chosen based on cost alone. The EA discounts option (c) as being too costly, without considering whether or not it would be more beneficial to listed salmonids.

related to dam retention, was included in the maintenance costs in the Corps' Draft Lower Snake River Juvenile Salmen Migration Feasibility Report/Environmental Impact Statement (Draft (Appendix I, sect. 3.8.5). The costs of dradging must be included in that EIS process, and it is unclear whether the cost of dredging the Snake and Clearwater Rivers, which is no doubt those costs must be the same as those estimated in this E.A. Specific comments relating to the EA, Biological Amenament (BA), and water quality are below.

The Dredging Proposal Requires Preparation Of An RIS

Corps' dredging proposal, which involves, among other things: (1) moving more than 500,000 significantly affecting the quality of the human environment." 42 U.S.C. § 4332(2)(C). The The National Environmental Policy Act ("NEPA") requires federal agencies to prepare an cuvironmental impact statement ("FIS") for any "proposals for ... major Federal actions cubic yards of friedge material; (2) dredging over a 2-year time frame; and (3) the federal expendiure of approximately \$1.8 million centainly qualifies as such an action.

violation of federal, state, or local environmental law. 40 C.F.R. § 1508.27. An analysis of these proposed action will be highly controversial; (3) the degree to which the proposed action may set a precedent for future actions with significant impacts; and (4) whether the action threatens a the basin; (2) the effects of dredging and associated habitat alterations on salmon populations has will affect imperised salmon and steelhead in one of the most heavily impacted aftered rivers in The Council on Environmental Quality's ("CEQ") NEPA regulations provide that the following factors must be considered when determining whether a federal action will significantly impact the environment: (1) the uniqueness of the affected area or resource; (2) the likelihood that the factors demonstrates that an EIS must be prepared for dredging plan because: (1) the proposal

In the Corps' snaly as of the socio-economic effects of the proposed dredging, there is no analysis of the costs to the fishing communities for going abead with this project. Section 4.g at p.51. A complete analysis would include affects to both local sportfishing and down river commercial fishing communities.

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been the subject of sustained controversy in the scientific community, in the courts, and in the media for many years; (3) the proposal is very likely to set a precedent for the final shape of the long-term plan; and (4) the proposal clearly threatens to violate federal environmental law, such as the Endangered Species Act ("ESA") and the Clean Warr Act ("CWA"), discussed in more detail below. Indeed, the proposal for dredging is very similar to actions considered and that would be taken as part of the long-term dredged material management plan. Under these circumstances, the Corps must prepare a full-blown ElS before it can proceed with this project.

NEPA Prohibits the Dredging while Completing EIS

The Corps has explicitly recognized that maintenance dredging in the Columbia/Snake River system is a major federal action for which an EIS must be prepared and have actually been system is a major federal action. Rather than being independent from the plan being assessed in the EIS, however, the Corps has prepared an EA whose sule purpose is to allow the Corps to complete the very activity that it is analyzing in the EIS pending the completion of that EIS. While perhaps convenient for the Corps, moving forward with just such an interim proposal is anticipated and explicitly, barred by NEPA's implementing regulations, which provide that:

- (c) While work on a required environmental impact statement is in progress and the action is not covered by an existing program statement, agencies stall not undertake in the interim any major Federal action covered by the program which may significantly affect the quality of the human environment unless such action:
- (1) Is justified independently of the program;
- (2) Is itself accompanied by an adequate environmental impact statement
- (3) Will not prejudice the ultimate decision on the program. Interim action prejudices the ultimate decision on the program when it tends to determine subsequent development or limit alternatives.

40 C.F.R. § 1506.1(c). The proposal analyzed in the EA violates the plain language of these regulations. As discussed above, the dradging is a major factoria action significantly affecting the human environment. Indeed, there is nothing to distinguish this project from the activities evaluated in the EIS, and thus there can be no basis to conclude that this project is any less a "major federal action significantly affecting the quality of the human environment" than the activities evaluated in the EIS, it therefore falls within the purview of 40 C.F.R. § 1506.1(c). The EA fails each of the tests required by this regulation, the failure of any one of which renders proceeding with the action without an EIS illegal.

First, the "interion" dredging proposal is not justified independently of the EIS. The EA selmits, as it must, that the project will be covered by the final maintenance dredging EIS. As the Corps against throughout the EA, this project "is the latert in a continuing series of dredging operations to maintain mytation, port, and recreational use of the lower Static, Clearwater, and Columbia Riverts." Section 4.d.5 at p.46. The project has been proposed only "[bjecause the Corps needs to dredge prior 10.2010 to meet its obligations for navigation channel maintenance, recreation, and wildlife management" and the EIS will not be completed in time. Section 2 at p.3.

That the proposal evaluated in the EA does not have an independent justification is most obvious from the fact that it is merely a modified version of what is likely to be the preferred alternative in the EIS. Indeed, the EA and the long-term EIS stem from precisely the same states and strive but achieve precisely the same ends, albeit for different periods of time – both are similar in purpose, need, and stope. For example, Alternative 2 of the Draft long-term EIS is identical to that action proposed here. See Draft EIS at Table 2-4. Even Alternative 4, the Draft EIS* Preferred Alternative," parallels the EA in that it includes substantially identical elements of the "Preferred Alternative," parallels the EA in that it includes substantially identical elements of the justification for the EA. See Draft EIS at 2-47 (describing in-water disposal to create justification for the adoption of the interim proposal than for the nearly identical preferred alternative likely to be officially the interim proposal than for the nearly identical preferred of the projector in the EA. See Draft EIS substantially that the internative likely to be officially that the dredging stems from precisely the same motivations as does the potential long-term stedging plan, it is likely that the actions proposed by the EA would, in effect, be the first year's implementation of the long-term dredging plan.

Second, and most obviously, the EA runs afoul of 40 C.F. R. § 1506.1(c)(2) because the Corps has not prepared at EIS for the inherim diredging. This NEPA regulation makes absolutely clear that the mere fact that an interim proposal will be superseded by a more long-term section in the future does not excuse defendants from preparing a full EIS when, as is true here, the interim proposal is a major federal action in its own right.

Third, the Corps' EA violates 40 C.F.R. § 1506.1(c)(3) because the implementation of the interim proposal will prejudice the ultimate decision on the program by tending to determine the development and outcome of the long-term plan. As discussed above, the proposed dredging mounts to little more than the first year of the long-term plan. Because the long-term plan contains many of the elements contained in the proposal analyzed in the EA, it is difficult to see used in the leng-term plan.

In sum, the Corps' proposal amounts to the premature implementation of alternatives that have not yet been fully disclosed and analyzed through NEPA's EIS process. NEPA's regulations, and the policy underlying the stante itself, were intended to prevent such actions from moving forward before they were fully malyzed in an EIS. SOS urges the agency to hered the policy, purpose, and plain language of the statute and prepare an EIS for the interim dredging proposal.

The EA Does Not Present Sufficient Information Or Evidence To Determine Whether The Project Will "Significantly Affect The Quality Of The Human Environment." The fundamental purposes of NEPA, are to guarantee that: (1) federal agencies take a "flard look" at the consequences of their actions before the actions occur by ensuring "that the agency, in reaching its decision, will have available, and will carefully consider, detailed information concerning significant environmental impacts," Robertson V. Methow Valler Citizens Council 490 U.S. 332, 349 (1989); and (2) "the relevant information will be made available to the larger audience that may also play a role in both the decisionmaking process and the implementation of

that decision," id at 349. In short, NEPA requires foderal agencies to look before they lesp. Unfortunately, the EA fails to serve this critical function. An agency's failure to include and analyze information that is important, significant, or essential renders an EIS or an EA inadequate – for, without such detailed information, there is no way for the public or the agency to adequately assess the impacts of a proposed action. See California v. Bergland, 483 F. Supp. 465, 495 (E.D. Cal. 1980), aff.d sub non. California v. Block, 696 F.2d 753 (9th Cir. 1982) (by failing to disclose key dam, "the Forest Service effectively underent the twin goals of environmental statements: informed decisionmaking, and full disclosure").

A complete accounting of the water quality impacts resulting from the removal and displacement of sediment during dredging and disposal is not presented in the EA. The dredge material is known to contain several types of pollutants including high number levels; small amounts of herbicides, pesticides and dioxin; some heavy metals and the sediments themselves. Stiring up these pollutants will influence certain water quality attributes such as the chemistry and clarity, with subsequent impacts to aquatic organisms. Specifically, this action will impact water quality by increasing urbidity, and potentially altering discolved oxygen, temperature and p.H. A comprehensive analysis of these potential water quality impacts must be conducted before the Corps can conclude that water quality impacts will not occur.

See 16.

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The Corp states that "the proposed action is not likely to adversely affect individuals of the listed salimon stocks" without providing clear and scientifically supported criteria. Section 404(b/f) Evaluation, at p.11. The volume of relocated sediment (approximately 244,269 cubic yard; in 2000:2001 (Section 2 at p.5)), caused by the dredging is of particular concern. The lower Stake River has a large sediment load that would be exactenced by the dredging through resuspension of sediments into the water column. Increased sediment that justicularly harmful labitat impacts, and negatively affects at like evertes of fish. Sediment deposition causes an increase in cobble embeddedences, which degrades thatist quality. Sediment is also harmful to fiy and juvenile fish. Fine sediment causes gill irritation and membolic stress, and can reduce the growth rate of juveniles. Sediment can also affect fish downstream and even system-wide.

See 40

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The Corps has not provided data on the presence of fall chinook and steelhead adult juvenile, and fry life stages from the period of December 15, 2000 through March 1, 2001. Even if few treatened salmonids are present at the time of the scheduled dredging, it is important that they not be harmed. Disturbances to ESA listed species and hebitat alternion resulting from the actual dredging would be in violation of ESA, which prohibits basassment of ESA listed appecies and destruction of entitieal habitat. Furthermore, if the dredging activities continue into late March, potential impacts to out raigrants of salmon and steelhead may occur.

The Corps may not, as it has done throughout this EA, ignore relevant studies and rely upon conclusory statements and unsupported austrious to satisfy NEPA's "hard look" requirement. SOS believes that these deficiencies present an inaccurate picture of the impacts of the proposal discussed in the EA to the public, making it impossible for anyone, including the Corps, to draw any trascored copolusions about the environmental impacts of the proposal, much less to decide whether it will significantly affect the human environment and will require preparation of an EIS.

The EA Fails To Analyze the Cumulative Impacts of Other Actions That Affect Snake River Salmon And Steethand.

See 25, Pertags the most glaring omission in the EA is the Corps' wholesale fallure to consider 26 & 27 cumulative impacts in its analysis. The short, 2-paragraph discussion of cumulative impacts hardly salisfies the daty that the Corps take a hard look at the impacts of the interim dredging proposal. See Section 4, h at p.53. In order to ensure that the combined effects of separate activities do not secape consideration, NEPA requires that federal agencies consider cumulative anvironmental impacts in their environmental analyses. A cumulative impact is:

the impact on the environment which results from the incremental impact of the sotion when added to other peat, present, and reasonably foresecable future actions regardless of what agency (Federal or non-Federal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time. 40 C.F.R. § 1508.7

The EA falls far short of satisfying a single one of these fequirenesis. For example, the Corps Vaguely alludes to, but nowhere describes in any detail, deelging that may occur in 2001-2002.

Set. S.E. Section 2, at p. 3; Section 3.4.2 at p.11; Section 4.4.2 at p.16. Nowhere, however, does necessary to discuss the cumulative impacts of these activities. In addition, the Corps has recently smalyzed a project to despon the Lower Columbia River -- an action that, if approved, lowest reach of the Columbia River in many of the same ways as the proposal. Despite the similarities between this project and the proposal evaluated in the EA - let alone the fact that the Ewer Columbia project has been analyzed and is therefore clearly "reaxonably foresteable" - the proposed action.

These examples are by no means exclusive. There are numerous other, easily identifiable actions and conditions that impact Snake River stocks, including, but not limited to: continuing habitat dectruction and modification from on-stonic and proposed land-management activities; Snake of these activities and factors — whether they be in the development stage, or completed projects of these cativities and factors — whether they be in the development stage, or completed projects take a "hard look" at the Corps' cumilative effects analysis. There is no way for the Corps to types of cumiative impacts. The absence of any meaningful cumulative effects analysis in the EA demands that the Corps to ES for this project.

NEPA "emphasize[s] the importance of coherent and competentive up-front environmental analysis to ensure informed decision making to the end that 'the agency will not act on incomplete information, only to regret its decision after it is too late to correct." Blue Mountains Biodiversity Project v. Blackwood. 161 F.3d 1208, 1216 (9th Cir. 1998). The Ed.'s perfunctory and incomplete discussion of cumularive effects fails to satisfy fundamental requirement. The EA's failure to analyze all pust, present, and reasonably foresceable future actions results in a

skewed, and ultimately inaccurate picture of the impacts of the proposed actions, leading to the kind of "blinders-on" decision-making that NEPA is designed to prevent.

The EA fails To Consider an Adequate Range Of Alternatives

NEPA, §101(Z)(C)(iii), requires that an EA countain a discussion of the "alternatives to the proposed action." The discussion of alternatives is at "the hear" of the NEPA process. 40 C.F.R. § 1502.14. The CEQ regulations require the agency to "frijgorously explore and objectively evaluate all reasonable alternatives." 40 C.F.R. § 1502.14(a). However, while the agency evaluate all reasonable alternatives. "Vermont Traines of an agency form, an agency to the to ignore "an appropriate range of alternatives." Vermont Yunker Nuclear Power v. Robertion, 3.5 F.36 1300, 1307 (ph. Cr. 1993). The failure to consider all reasonable alternatives is fatal to the adequacy of an agency 9 NEPA analysis. Idaho Conservation League V. Mounta, 956 F.24 1508, 1519 (9th Cir. 1992). ("The resistence of a viable, but unexamined alternative renders an environmental impact statement handequate.)

Stripping away the alternatives given only brief consideration in the EA, the Corps analyzes only two elternatives to dredging; the proposed action and 'no action." Such a narrow range of alternatives does not fulfill NEPA's mandate to rigorously explore alternatives. For example, the Court in Commonwealth of Massachusetts. Clark. 594 F. Supp. 1373 (D. Mass. 1984), found that the Department of Interior had not considered an adequate range of alternatives in its onalysis of an offshore oil drilling proposal. Of the thirteen alternatives prescripted in the cheument, the court found that, 'conce the liftegal and evenlyping alternatives are removed from the FEIS, the Secretary was presented with besically only two different configurations for the sele... the FEIS is hopelessly skewed in favor of only small deletions from the proposited action]." [L. at 1380.

The EA's failure to consider a reasonable range of alternatives is even more boubling in light of the fact that many alternatives clearly exist. For example, even the "no action" alternative is dependent to the fact that many alternatives clearly exist. For example, even the "no action" alternative is discussion to strike. It is that the completion of the long-term clearlists summarily the possibility of waiting to derege until the completion of the long-term extent, the navigation channel does not provide for navigation. Indeed, the Corps tacity admits extent, the navigation contained even without dredging, conceding that "[b]arge operators would possibly lighten their loads to prevent grounding." Section 3.a. While perhaps not the preferred economic alternative for barge operators, consideration of an alternative that includes reconfiguration of barging routes of things for shipping during periods of higher Howelleary merits further consideration where, as here, the proposed activity will impact several endangered and the fact that the Corps has not produced a final Elfs for partial dan removal, an alternative that, if approved, would remet dredging unnecessary and costly. SOS strongly-urges the Corps to explore this and all alternative in further deadli in an ERS.

Clean Water Act

The Proposal Does Not Sainly 404(b)(1) guidelines.

See 38, 39 & 40

The same deficiencies present in the Corps' NEPA analysis also infect the agency's 404(D(1)) analysis. In addition to having to analyze the cumulative effects of its permitting decisions purpunt to NEPA, and the CWA, the Corps must evaluate cumulative impacts pursuant to EPA's 404(b(1)) guidelines, 40 C.F.R. § 220. These guidelines require the Corps to determine that a § States." 40 C.F.R. § 231 (0); This finding must be "based upon factual determinations, and tests." Id. In making this required determination, the Corps must consider the "cumulative effects on the aquatic ecosystem," which are defined as:

The changes in an aquatic ecosystem that are antibutable to the collective effect of a miniber of individual discharges of dredged or fill material. Although the impact of a particular discharge in yountitute a minor change in itself, the cumulative effect of numerous such piecemeal changes can result in a major impairment of the water resources and interfere with the productivity and water quality of existing aquatic ecosystems.

40 C.F.R. § 230.11(g)(1). In carrying out this analysis, the Corps must predict the cumulative impacts "to the extent reasonable and practical." 40 C.F.R. § 230.11(g)(2).

The EA contains no such analysis. Mirroring its inadequate assessment of cumulative impacts under NEPA, the Corps glosses over this requirement with one sentence, concluding, without providing any supporting evidence, that "[n]o cumulative effects have been identified or anticipated." App. A at 2.(F)(3)(h). Such gerfunctory analysis falls far abort of the analysis contemplated by 40 C.F.R. § 230.11(s).

The Proposal Does Not Comply With Washington State Water Quality Standards

40 C.F.R. § 220.10(b)(1) prohibits any discharge of dredge or fill material if it "causes or contributes ... to violations of any applicable State water quelity standard." As courts have recently reinforced, the Corps must comply with numeric and numitive standards, as well as the State's antidegradation rules in the lower State River, 33 U.S.C. § 1323(a). National Wildlife Ecd'n v. U.S. Attury Corps of Engineers, 92 F. Supp. 24 1072 (D.Or. 2000). The proposal discussed in the EA runs afoul of these requirements.

The Clean Water Act requires each State to develop specific water quality criteria that ensure preservation of designated uses. 40 C.F. & § 131.6(a) and 131.11(a)(1). These criteria can be mimerical, narrative, or both. For exkmple, for the lower States River, Washington has entablished a specific numeric temperature criteria of 20 degrees Calsius. The State, however, also has entablished a narrative standard that requires Class A waters to meet or exceed the needs of salmonid migration, rearing, spawning, and harvest. WAC 173-201A-030(2)(a-b).

Washington has also enacted water quality standards for the purpose of establishing "water quality standards for surface waters of the state of Washington consistent with public health and quality standards for surface waters of the state of Washington consistent with public health and wildlife."

WAC 173-2014-01010. Pursuant to that purpose, the state's antidegradation rule mimics uses stall be maintained and protected and no further degradation, "existing beneficial uses stall be maintained and protected and no further degradation which would interfere with or high quality waters, "the existing water quality shall be protected and pollution of said waters become injurious to existing water quality shall be protected and pollution of said waters which will reduce the existing quality shall not be allowed, except in those instances where" after public participation, an oversiding consideration of public interest will be served; all discharges will be provided all known, available, and reasonable methods of prevention, centrol, and tesament; and "the lower water quality shall still be of high snough quality to fully support all existing beneficial uses." WAC 173-201A-070(4). The proposal violates both of these standards untarative standards and antidegradation rules. See sures at 5

In addition, the Water Quality Standards for Surface Waters of the State of Wathington specifies that for Class A. Waters, the occurrence of toxic concentrations "shall be below those which have the potential either singularly or cumulatively to adversely affect characteristic water uses, cause acute or chronic conditions to the most sensitive biota dependent upon those waters, or adversely affect public health, as determined by the department." WAC 173-201(a). The Corps has not provided the supporting acientific evidence to determine Wachture the presence of sediment-associated contaminars and the potential effects of their resuspension from diodging will be consistent with the State of Wathington Surface Water Quality Standards. An ecosystem level analysis of the potential exposure to taxic contaminate is required in order to provide a reasonable assurances that public health and adpart dredging operations.

Fallure to Comply with the Endangered Species Act

See 41 SOS appreciates the inclusion of the Biological Assessment (BA) with the EA, but we believe that the BA fulls to provide an adequate basis for meaningful consultation with the NMFS, violating the ESA and its implementing recolations.

Section 7 of the ESA requires any federal agency undertaking an action that may effect listed salmon or steelhead to consult with NMES. 16 U.S.C. § 1236(a)(2). The presence of multiple species listed under the ESA has necessitated the initiation of consultation through the preparation of the BA that accompanies this EA. The ESA mandates that the BA 'shall evaluate the proportial effects of the action on listed and proposed species and designated and proposed critical habitat and designated whether any such species or habitat are likely to be adversely.

² This also raises an additional problem with the Corps' cumulative impacts analysis. A potential effect of moving these sediments from the river bottom to the riverside is their exposure to wind and other elements should dant breaching become the preferred alternative in the Corps' Draft EIS. There is no analysis of this potential in the EA, nor is this mentioned as a benefit for selection of upland disposal.

affected by the action." 50 C.F.R. § 402.12(a). See also 16 U.S.C. § 1536(c). This proposed action would undoubtedly affect numerous listed sulmonids, which triggers formal consultation with NNFS. Formal consultation results in a Biological Opinion (BO), to delermine if the adverse effect will jeopurdize the species or destroy or adversely modify critical habitat. 16 U.S.C. § 1536(a)(2).

A BA provides the foundation for consultation and about supply NMFS with enough background data to enable NMFS to "use the information in the biological assessment, together with other relevant information if becasary, to formulate a biological opinion on the proposed agency action." Den Rohlf, The Endangered Species Act. A Guide to its Protections and conclusory statements, and lack of a cumulative effects inquiry in this BA fall far about of the ESA's requirements my, biological assessments. The BA is simply a regurgitation of the EA, with no additional analysis of the potential impacts to listed species, most notably salmonific. Unfortunately, just like the cursory analysis in the EA, the BA sufficers from the same scientific

See 42 The BA roughly sketches' some affects of the proposed project on listed sulmonids, but little detail of those affects, nor the long-term impacts are discussed. In addition, the baseline of the current habitat for listed sulmonids in the project area is not discussed. A thorough discussion of the impacts of current management practices is a necessary and useful starting point for an more curcul requirement that a BA "evaluate the potential effects of the action." 30 C.F.R. § 402.12(a). To be meaningful or useful to NMFS and to the public, the BA must fully evaluate all of the effects of current management and the potential effects of proposed alternance actions.

Consistency with Other Salmon Recovery Bocuments

See 45 When the Corps' RA is viewed in the context of recent documents that serve as a basis for salmon recovery in the Columbia Basin, it becomes apparent that the this EA minimizes or ignores much of the guidance outlined in these documents. This is especially clear in respect to the Federal Caucus' document, Conservation of Columbia Basin: Salmon Recovery Strategy.

The overall premise of the Salmon Recovery Strategy states that [1] is time for citizens, governments, and special interests in the Columbia River Barin to collectively rake immediate and sustainable actions to rebuild the health of the Basin" (Executive Summary, 12). While the Corra EA does act upon the immediate. It largely impress the issue of austainability. This is particularly true in respect to the Corra plan for the Beneficial Use" of dredged materials for the purpose of orestion of shallow water rearing habitat.

The Salmon Recovery Strategy bringhasizes that there is a great need for information concerning mainstem habitat projects. Included is the need to identify responses of habitat improvements in large rivers-especially the Columbia River Basin-to determine the relationship of the size of improvement to the size of impact on the environment (Salmon Recover Strategy, Vol. II, 21). To achieve these informational needs the plan calls for "rigorous monitoring and evaluation action plans that may lead to changes in ... identification of cause and effect relationships" (Vol.

II. 21) The existence of such uncertainties does not excuse poorly assessed projects but, as explicitly stated in the Strategy, the "ongoing uncertainties simply emphasize the importance of accountability, monitoring, and evaluation" (Ex. Summary, 9).

The proposed action for beneficial use as described in the EA, does not incorporate this form of monitoring and evaluation in respect to the impact of the proposed project upon salmon and the environment. The Corps takes care to address monitoring of the engineering integrity of this project but largely ignores scientific credibility by foregoing actions to initiate the rigorous monitoring and interagency approach as mandated by the Recovery Strategy.

See 20

The Corps acknowledges that such a program is being sought through the establishment of the RDT: As described by the Corps the RDT will, "establish sampling and senting procedures, assist with development of a monitoring plan, insure adherence to environmental laws, and involve other groups for consistency with local plans" Section 3.d.2 at p.11-12. Despite the existence of a group that will allow compliance with the Recovery Strategy, the Corps continues to insist on proceeding with a large-scale habitat project in an area of special informational rieeds, and many unknowns, without utilizing a scientifically credible process. The result of not basying a scientifically establish process. The result of not of adherence will not only render any monitoring program useless, but will also undercut the importance of the management actions themselves." (Vol. I, 55)

Again, the choice being made by the Corps is to forgo a "well organized implementation process" and to instead put the Corps commitment and compliance to a strong interagency approach to salmon recovery into question. The need for interagency actions now is evidenced often in the Recovery plant as success, "hinges on active and effective leadership and significantly improved coordination among federal, state, tribal and local agencies." (Ex. Summary, 10).

The commitment to the Salmon Recovery Strategy is put into further doubt by the way the Corps' summarizes its priorities. As space, "It is Corps policy to dispose of diredged material associated with the construction or maintenance dereging if travigation project in a manner that is least coetly, is consistent with sound engineering matches, and that meets federal environmental standards" Section 2 at p.3. The need to go beyond this policy has alteredy been made evident by the continued decline of endangered salmon and steethead populations.

In addition, NMFS has determined through its Biological Opinion that the current state of the operation the Columbia River system will not sufficiently reduce the risk to these species and operation the Columbia River system will not sufficiently reduce the risk to these species and better for every state of the control of the columbia through through an changes in policy and planning immediately in order to put salmon on equal footing with chocerns of navigation. While these measures are not sufficient, by themselves, to recover serainably harvestable populations of salmon and steelbead, they convectly recognize the need for fundamental changes in the management of the Stake and Columbia Rivers. In disappointing contrast to these recent pronouncements, the action proposed in this EA demonstrates the Corps' intent to continue "business as usual" on the Snake River.

In sum, NEPA, the Clean Water Act, and the ESA require more for listed species and water quality than the current EA and BA provide. Thank you for the opportunity to comment. If you have any questions, or would like to discuss this matter in more detail, please do not heattase to contact us.

Sincerely,

Par Ford, Save Our Wild Salmon
Bill Arthur, Sierra Club
Tim Stearns, National Wildlife Federation
Rob Masonia, American Rivers
Shawn Cantrell, Friends of the Earth
Glen Spain, Pacific Coast Federation of Fishermen's Associations and

Intitute for Fisheries Resources
Loventa Warren, Salmon for All
Bill Sedivy, Idabo Rivers United.

Co: Doring Darm, National Marina Fisheries Service
Charles Findley. Environmental Projection Agency, Region X

Cc. Donna Darm, National Marina Fisheries Service
Charles Findley, Environmental Protection Agency, Ragion X
Tom Firzainmona, Washington Department of Ecology
Jennifer M. Belcher, Washington Department of Natural Resources
Dr. leffney P. Koenings, Washington Department of Fish and Wildlife
Suphanie Haliuck, Oregon Department of Fish and Wildlife

Save our Wild Salmon Coalition

Comment 1

threatens to harm imperiked salmon and steelhead inhabiting the Columbia-Snake Rivers. the DEIS is inadequate in many respects, and the Corps' preferred alternaive needlessly

Appendix F). However in the NMFS Biological Opinion, it is stated, "The NMFS has determined endangered UCRS chinook, endangered UCR steelhead, or threatened MCR stælhead or result in that the effects of the proposed actions will not jeopardize the continued existence of endangered jeopardy is based upon the current status of the species, the environmental baseline for the action The Corps realizes that dredging and disposal of material in the lower Snake River and McNary Reservoir may have negative impacts to some ESA-listed fish in the project areas (DMMP. SR sockeye, threatened SRF chinook, threatened SRSS chinook, threatened SRB steelhead, the adverse modification or destruction of their Critical Habitat. The determination of no area, and the effects of the proposed actions."

Save our Wild Salmon Coalition

Comment 2

Non-dredging (or reduced dredging) alternatives, which would be safer for fish, are not analyzed or considered. .. the Corps states that its goal is to pursue the lowest-cost alternaive that does not violate federal environmental law. This is hardly a lofty standard, yet one that the actions analyzed in his DEIS still fail to meet.

consistent with sound engineering practice and meet all Federal environmental standards...". The minimize impacts to or even benefit aquatic resources. Section 1.8 has been expanded to discuss Non-dredging and reduced dredging alternatives were considered in the planning process and are Corps also considered and, wherever possible, integrated components of alternatives that would documented in Sections 2.2.1 - 2.2.3. The text in these sections has been revised to include an and need stated in Section 1.2. The alternatives also comply with the Corps' Planning Guidance problem in the five reservoirs. The alternatives evaluated in the DMMP/EIS neet the purpose Notebook, Engineering Regulation 1105-2-100, which states that "It is the Corps of Engineers expanded discussion of why these measures would not adequately address the sedimentation the role of the Local Sediment Management Group in addressing changes in upstream land maintenance dredging of navigation projects in the least costly manner. Disposal is to be policy to accomplish the disposal of dredged material associated with the construction or management to reduce erosion and sedimentation, as well as their role in identifying and evaluating opportunities for beneficial uses of dredged material.

believes the four action alternatives that were analyzed are cost-effective and are in compliance Based on its own analysis and comments received from the regulatory agencies, the Corps with environmental laws.

Organization

Save our Wild Salmon Coalition Comment 3

One of the more disturbing features of the Corps' plan is that it entirely dismisses dam-breach

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

construction

scenarios, which would obviate the need for expensive and risky navigation dredging and lewee

channel within the five reservoirs. Therefore, dam breaching was not considered as an alternative. Breaching any of the dams would not meet the purpose of maintaining the authorized navigation of the DMMP/EIS. Section 1.6 of the DMMP/EIS addresses the relationship of the DMMP/EIS to the Lower Snake River Juvenile Salmon Migration Feasibility Study (Feasibility Study). The However, this does not mean that possible dam breaching was not considered in the preparation alternative in the Feasibility Study is Major System Improvements (Adaptive Migration), which progress reports in 2003, 2005, and 2008. The 2008 report must include a determination of whether or not to pursue dam breaching. Until such a decision is made and Congress authorizes Feasibility Study analyzed the impacts of breaching the four lower Snake River dams as one of the alternatives. Therefore the DMMPEISdid not repeat this analysis. However, the preferred dam breaching, the Corps has the responsibility to maintain the navigation in the lower Snake breaching, the 2000 National Marine Fisheries Service Biological Opinion calls for major includes modifying the dams, optimizing voluntary spill, and implementing operational modifications for fish transportation. Even though this alternative does not include dam River as authorized by Congress.

Organization

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omment 4

If nothing else, the Corps should not be moving ahead with a major long-term project with serious impacis to aquatic species until a final decision an dam breach is made.

based on that decision will not likely be made until sometime after 2008. In the interim the Corps The decision whether or not to pursue breaching of the four lower Snake River dams may not be made until the 2008 checkpoint. Changes in the need for navigation on the lower Snake River channel. It should be noted that, even if the four lower Snake River dams are breached, there needs to continue its long-term planning to meet its responsibility to maintain the navigation would still be a sediment issue (and the need for dredged material management) in McNary eservoir.

Also see the response to comment 3 above.

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other in only the most maginal respects. This is hardly a sufficient scope of different alternatives instead, it (the Corps) has presented four virtually identical akernatives that differ from each to offer a rewoned choice of options: absent meaningful consideration of non-dredging or educed dredging.

Response

The range of alternatives meets the project purpose and need. Non-dredging and reduced dredging alternatives were considered. The Corps was unable to identify any non-dredging alternatives that would preclude the need for dredging. Reducing sediment generated by land use practices was considered, but would not eliminate the need for dredging. Although the Corps has

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

no authority to change land use practices on non-Corps property, the Corps plans to use the Local

Sediment Management Group to pursue possible modifications to land use practices to reduce the

future need for dredging.

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Clearly, a "no action" alternative that involves as much "action" as this one is invalid to meet the purposes described above, even if continued dredging was truly required, which SOS disputes.

Joing business. For the DMMP/EIS, "no action" was defined as no change in the way the Corps alternative can also be called the "No Change" alternative, as in no change in the current way of existing legislation or regulations will continue, even as new plans are developed "no action" would be a useless academic exercise. Therefore, the "no action" alternative may be thought of is currently maintaining the navigation channel, port facilities, boat basins, or irrigation intakes. This interpretation is described in the Council on Environmental Quality publication "NEPA's guidance further states that: "To construct an alternative that is based on no management at all is "no change" from current management direction or level of management intensity." This Forty Most Asked Questions," which states that where "on-going programs initiated under When preparing National Environmental Policy Act (NEPA) documents, the 'No Action" in terms of continuing with the present course of action until that action is changed." (46 ederal Register 18026, as amended, 51 Federal Register 15618). Response

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Comment 7

The Corps failed to evaluate non-dredging (or reduced dredging) alternatives such as lighter

barges or reduced commodity shipping.

comments 2 and 5 above. In addition, the response to comment 29 below provides detailed The Corps evaluated a variety of non-dredging and reduced dredging measures. discussion of light-loading barges.

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Comment 8

requires that the Corps continue dredging. Congress authorized dredging, but does not require it. The Corps presents the Congressionalauthorization to pursue dredging, see DEIS 1-5, as if it

The legislative history of lower Snake River navigation indicates Congress intended for the lower Snake River to have a navigation channel 14 feet deep and 250 feet wide up to, and including, Lewiston, Idaho. The Corps plans to continue to carry out the intentions of the United States Congress as closely as possible.

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

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Comment 9

need to dredge. NEPA requires consideration of reasonable alternatives like this one even if they opportunities to work cooperatively with state, federal and private land owners and managers to mpact dredging. . . . Another alternative the Corps should have considered id breaching Lower I further example of the DEIS' myopic focus on intensive dredging is its failure to meaningfully address methods to reduce sediment input into the rivers, which would reduce substantially the are not within the Corps' jurisdiction. 50 C.F.R. 1502.14 (c). SOS urges the Corps to evaluate educe sediment input into the Columbia basin straıms as an alternative to continued high Granite Dam

otentially viable methods are changing land use practices and installing bendway weirs. Neither input. The Corps also proposes to study bendway weirs if the decision is made in 2008 that the Group (LSMG) to encourage land use managers to adopt practices that would reduce sediment of these methods would totally stop sediment from entering the rivers or being deposited in unacceptable locations. The Corps plans to work through the Local Sediment Management The Corps did examine possible ways to reduce sediment input into the rivers. The only Snake River dams will remain intact and functional. in-water structures, such as bendway weirs, have been booked at in the past and were evaluated as accumulate behind them. Specifically, bendway weirs would not be appropriate in the Lewiston/Clarkston area because they would raise the water surface during high flows and could part of the development of the DMMP (See Section 2.2.3.2 of the DMMP/EIS) Structures like then over-top the levee. Keeping the navigation channel clear and the high-flow water surface bendway weirs can increase water velocity and impact flow direction, but sediments will evel down are goals of the plan. Bendway weirs may be an appropriate option in other areas where water surface elevation isn't as considered at other locations to address limited sedimentation on a case-by-case basis. The Corps and LSMG may evaluate use of such a technologies in the future, within the framework provided critical as at Lewiston. Bendway weirs, or other appropriate non-dredging technologies, may be by the DMMP.

providing navigation to Lewiston, Idaho. Because breaching the dam would not meet the project purpose, this alternative was not considered in the DMMP/EIS. Also see responses to comments Breaching Lower Granite Dam would not meet the project purpose and need which includes and 5 above.

Organization

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Comment 10

besides dredging, such as the idea of "sediment pass through." The Corps should more actively There are other opportunities that may satisfy the Corps goal of particular channel depths seek out these kinds of atternative avenues.

The Corps has considered sediment pass through, or flushing (both with and without reservoir Response

Final DMMP/EIS July 2002

drawdown) and has determined that it is not a viable alternative to meet the purpose and need.

U.S. Army Corps of Engineers Walla Walla District

Response to Comments

Without drawdown, a spring flushing operation would not develop sufficient velocities within the drawdown, the sediment flushing could be effective, but the impact to project operations, as well reservoir to pick up significant quantities of sediment and transport it downstream. With as project facilities and major support features, would exceed the benefits.

outmigration has some potential. One of the major drawbacks of drawing the reservoir down to passage system at Lower Granite Dam as unusable. There are two alternatives for fish passage that degree during the fish outmigration period would be the rendering of the juvenile fish The drawdown of the reservoir of 10 to 15 feet during the annual flood season and smolt without the juvenile bypass systems, turbines and the spillway.

factor in that depending on the gatewell environment, conditions for fish can be detrimental if fish and put fish in trucks for transporting downstream. Gatewell residence time, however also plays a (Swan et al. 1994), up to 18 would need to be constructed at a cost that may exceed the dredging costs for the 20-year course of action. Another alternative would be to periodically dip gatewells eventually die there. Although a lift tank was tested in 1994 for removal of fish from gatewells turbine, with possibly higher than desired mortality rates. In addition, a large number of fish For turbine passage, the traveling screens could be pulled, and fish would pass through the would be trapped in the gatewells with no opportunity for exit, and a great number could spend too long in there.

(Eppard et al, 1999) for fish spilled during high and 100% spill scenario, however, some fish that spill on, versus spill off without regard to powerhouse operations). If an eddy is set up, it has the powerhouse operation, a large eddy would be set up in the tailrace of the dam. A predator shriy potential to continually cycle juvenile fish within the eddy and constantly expose them to more Lower Granite Dam tended to seek out the lower velocity areas (although this study mentioned Bjornn and Piaskowski 1999) showed that during spill operations, predators in the tailrace of passed during these scenarios do experience longer tailrace residence times (Eppard -NMFSpredators. Only a few minutes of migration delay were seen in the Ice Harbor Dam tailrace If an all spillway route were determined to be the most appropriate passage route, with no Personal Communication, 2002).

drawdown occurred. Invertebrates that use the Port of Wilma, Centennial Island and other known operations. Rearing areas important to fall chinook and stargeon would be rendered less usable if rearing in the area either during drawdown or after water up. Bennett denonstrated that after the crayfish to a diet composed of more juvenile salmonids. This was due primarily to the reduction channel catfish and other predatory species all have the potential to change predation targets and species would be negaively affected, other species that prey on them including White Sturgeon, negatively affect salmonid smolts. Disruption of the food web on a repetitive basis would cause drawdown event, Smallmouth Bass changed their predation targets, from preying on primarily shallow water rearing areas would be desiccated and would provide little to no benefit to fish in the number of invertebrate species caused by the drawdown. Because these invertebrate In addition, spawning migrations of fish into Alpowa Creek may be blocked by drawdown overall detrimental effects to the limnological characteristics of the reservoir.

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Comment 11

The DEIS falls far short of these strict standards. Instead it presents sweeping generalizations

Final DAMAP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

Appendix O Response to Comments

and unsupported assertions, and promises environmental benefits that are either unsupported or actively contradicted by the available science.

1987 to ensure it evaluated the effectiveness of habitat creation. These agencies included the U.S. The proposed habitat creation is supported by established research, the study plan and findings of researcher who was a recognized expert in the field, and a study design from the region's leading Numerous scientists from federal, state, university and tribal agencies set up the study design in Yakama Indian Nation. The researcher involved with many of the studies was David Bennett, ESSA, Battelle-PNNL, Washington Department of Fisheries, Oregon Department of Fish and Wildlife, University of Idaho, University of Washington, Oregon State University, and the Army Corps of Engineers, U.S. Fish and Wildlife Service, National Marine Fisheries Service, which were developed and reviewed by a variety of government, tribal, and academic peers Ph.D., a tenured professor at the University of Idaho. With a multiple-year study, a lead experts, the resulting science supports the proposed beneficial uses of dredged material.

shows promise. The Corps will monitor the success of any habitat creation areas as described in In their Biological Opinion, NMFS has concurred that the proposed creation of salmon habitat he Monitoring Plan (Appendix M).

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Comment 12

For example, the DEIS largety discounts the impacts of the project to ESA-listed fish based on the premise that relatively few fish will be in the river during the time that dreaging will actually

of hatchery and natural subyearling fall chinook salmon residualized and migrated early in spring Although the Corps has no desire to harm any fish and is attempting to avoid impacts by working in the established work windows, the Corps has determined that proposed dredging and subyearlings. (Tiffan et al, 2001). According to Williams and Bjornn 1998, "A small proportion seaward as yearlings in spring was small and did not affect survival estimates." This indicates These issues are addressed in the DMMP/EIS in Appendix F. Fall chinook typically have an that only a small proportion of fall chinook over winter in the reservoirs during some years. 1997. However, as with fish released in 1995, the number that overwintered and migrated ocean type rearing life history and typically outmigrate seaward during the summer as DMMP/EIS could harm some individuals of these listed stocks.

Section 3 of the DMMP/EIS outlined fall chinook behavior and life stages in the project area and hat proposed activities are likely to adversely affect overwintering and rearing fish of these runs. not likely adversely affect adult passage based on the type of dredging involved. In addition, the creating rearing habitat. The DMMP/EIS also addresses Snake River Basin steelhead in Section OMMP/EIS discusses Snake River Basin Spring/Summer-Run Chinook in Section 3, indicating would likely adversely affect juvenile fish by dredging. However, the proposed activities would 3, covering behavior and life stages in the project area and determined that proposed activities dredging. However, the Corps would be creating a long-term benefit to these salmonids by determined that proposed activities would likely adversely affect fall chinook salmon by

will not likely jeopardize the existence of any of the listed endangered or threatened species in the According to NMFS Biological Opinion (Appendix F), the actions outlined in the DMMP/EIS

Final DMMP/EIS

Walla Walla District U.S. Army Corps of Engineers

Organization

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It is not at all clear that impacts will be so short-term that they will not affect fish arriving later. Comment 13

existing fish habitats. In addition, as part of the Reasonable and Prudent Measures (RPMs) set out Sediments disturbed by dredging are not expected to drift great distances downstream and cover by the NMFS Biological Opinion, the Corps is directed to assess the habitat that is currently in the reservoir both before and after dredging occurs.

actually cause any of the problems for fish attributed to high turbidity (Allen and Hardy, 1980). In fact the criteria of not exceeding 5 NTUs over the background level for turbidity while dredging The US Fish and Wildlife Service indicates that there is little evidence that dredging operations is relatively conservative. Although turbidity may cause stress, Gregory and Northcote (1993) have shown that moderate levels of turbidity (35-150 NTU) accelerate foraging rates among uvenile chinook salmon, likely because of reduced vulnerability to predators (canouflaging

Organization

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The DEIS does not explain how sediment plumes will not adversely impact fish habitat downstream as itsettles.

Response

See response to comment 13 above.

Organization

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economic harm can constitute an emergency that should permit dredging during the migration let the DEIS provides no guidance on what situations might constitute an "emergency," what steps could be taken to avoid one, and what environmental consequences can be expected to follow from dredging during migration season. SOS strongly disagrees that commercial or Comment 15

Dredged or Fill Material into Waters of the U.S. or Ocean Waters (33 CFG 335.7). Any potential Section 2.2.4.4 defines what an emergency is and gives several potential situations that would be emergency situation would likely be caused by high flows moving sediment or rock. The Corps the navigation channel known to experience shoaling. The environmental effects of performing steps to avoid an emergency other than perhaps the periodic removal of sediment from areas of cannot control the flows of tributaries entering the reservoirs. Therefore, the Corps cannot take Maintenance of Army Corps of Engineers Civil Works Projects Involving the Discharge of considered an emergency requiring emergency dredging, consistent with Operation and

Final DMMP/EIS

U.S. Army Corps of Engineers Walla Walla District

(ppendix O

emergency dredging in a manner that minimizes any adverse effects on the environment as much as possible. The Corps will consult with the National Marine Fisheries Service and the U.S. Fish emergency dredging would depend upon the situation. The Corps would attempt to perform the and Wildlife Service for emergency situations. This consultation will occur as soon as possible, but may occur concurrently with or after completion of the emergency dredging.

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ediments. SOS believes that the risks presented could be far greater than those acknowledged by the DEIS largely dismisses the potential for dredging to stir up toxic wastes contained in Response he DEIS

within the sediments to be dredged. The collection and analysis of sediment samples will be done probability that significant amounts of chemicals of concern will be identified prior to the start of the water column, monitoring will be used to limit the extent of impacts if an unknown "hot spot" DMMP/EIS. Monitoring during dredging will assess whether unacceptable amounts of sediment the Corps' intent is to test the sediment and avoid reintroduction of any chemicals of concern into modified to provide additional controls or limit the extent of sediment plumes in the river. While Analysis prior to dredging will include chemical analysis to identify contaminants if they exist movement may occur during dredging operations and require that the work be stopped and/or in accordance with a specific Sampling and Analysis Plan that is designed to provide a high fredging operations. A monitoring plan is being developed, and is included with the Final The findings presented in the DMMP/EIS are based on reviews of available sediment data. s encountered during dredging. See Monitoring Plan (Appendix M).

Organization

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Comment 17

The Corps should provide much more detailed information, including the results of recent comprehensive sampling and core tests throughout the areas to be dredged.

from recent sediment sampling. As the sampling and analysis of each area proposed for dredging planning process. Section 3.9 of the DMMP/EIS has been revised to provide more detail on how sediment data were used. Detailed data are provided in Appendix H, including the pertinent data Available data that is relevant to the potential dredging activities were considered during the is completed, that information will be made public as a part of the review process for each specific dredging project.

Organization

Save our Wild Salmon Coaltion Comment 18

The Corps should provide more detailed information on how it intends to monitor the dredging to ensure that toxics "hot-spots" don't cause habiat degradation.

Final DMMP/EIS July 2002

Walla Walla District J.S. Army Corps of Engineers

See response comment 16 above.

Organization Save our Wild Salmon Coalition

have been ignored. The DEIS fails to address these concerns or provide any other support for the The DEIS assumes, without any analysis or support, that in-river disposal will create effective habitat" for salmon and other species. While SOS supports valid salmon habitat restoration measures, we are concerned that the benefits of in-niver disposal are overstated and the risks Corps' conclusion that in-river disposal will benefit fish.

University, and the Yakama Indian Nation. The researcher involved with many of the studies was David Bennett, Ph.D., a tenured professor at the University of Idaho. With a multiple year study design, a lead researcher independent from the federal government, and a study design from the Department of Fish and Wildlife, University of Idaho, University of Washington, Oregon State federal, state, university and tribal agencies set up the study design in 1987. These agencies include the U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, National Marine findings are based upon a multi-year study of creation of habitat. Numerous scientists from Fisheries Service, ESSA, Battelle-PNNL, Washington Department of Fisheries, Oregon regions leading experts, the Corps believes that the science is sound (Web et al 1987).

by collecting baseline data, improving mainstem reaches in ways that mimic the range and the diversity of historic habitat conditions as nuch as possible, and monitoring and evaluating the results." For this project, the Corps has met the baseline data gathering through David Bennett's "BPA, working with the Corps will take immediate steps to begin to address these uncertainties Power System (FCRPS) indicates that the Corps is supported in these actions. Action 155 states In addition, the NMFS 2000 Biological Opinion for operation of the Federal Columbia River work and is now attempting to mimic the habitat that was in place prior to the hydrosystem completion.

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Comment 20

strategies linked to montoring could affect frequency of dredging, minimize costs, and minimize Some provisions for monitoring results and changing direction as required shauld be included To the extent that the "Local Sediment Management Group" could constitute such an adaptive management mechanism, much more information on standards needs to be included to ensure careful scrutiny of results and cautious adaptation to protect natural resources. Adaptive ecological impacts.

monitoring plans. These will largely focus on water quality, sediment contamination, and redd distributions. The Corps plans to perform biological monitoring of the disposal areas to ensure that the areas are providing the anticipated food organisms and are being used by target fish species. The Corps also plans to monitor the stability of the embankments created by in-water As described in the Biological Assessment for Anadromous Fish Species and the Biological Opinion from NMFS (both found in Appendix F), the Carps will implement a number of

Final DMMP/EIS

U.S. Army Corps of Engineers Walla Walla District

Response to Comments

disposal to determine if changes need to be made in the construction plans. Results from all of the monitoring will be used to indicate where and how changes need to be made in the disposal plan. The LSMG will be appraised of the results of the monitoring. The LSMG will also be asked to recommend changes based on the monitoring results.

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With respect to the potential ecosystem impacts associated with constraining rivers within levees, sood waters within lewees, rather than letting them spill into sloodplains. It is silent on potential aquatic risks associated with construction and maintenance of these structures, which could be The DEIS fails to discuss potential impacts to the river ecosystem associated with constraining anticipated given their proximity to the river.

capacity. The purpose and need of the DMMP is, in part, to address flow conveyance in Lower Granite during a flood event: flow conveyance is currently affected by the levees that were the proposed action would constrain no more of the river within levees than the original design constructed as an upstream extension of the lock and dam complex.

lever raise is not anticipated to have significant adverse effects on aquatic resources. Most construction would occur on the existing levee, and the Corps would take all practicable measures would plan to complete work on the land-side of the levees and minimize work on the river side to minimize the sedimentation that results from the construction activities. The final design of of the levee. Once the proposed leveeraise is constructed, maintenance of the levees would be levee modifications would seek to avoid in-water work to the extent practicable, and the Corps With regard to the construction of the levee raise and risks to aquatic resources, the proposed similar to the program currently in place.

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extensive and highly conservative flood control management available in the upper Snake basin. Moreover, the Corps should discuss whether levee construction is even necessary in light of the Comment 22

The hydrology used in the risk analysis is based on Corps flood control rules and regulations. The Appendix C presents the details of the Corps' hydrologic analysis. These factors were considered in combination with the Corps' flood control regulations, which apply to projects such as Lower Granite. Further, a risk assessment is a component of the overall hydrology analysis. The risk tydrology analysis considered upstream flood control management and sedimentation rates. issessment allowed evaluation of damages prevented by alternatives in comparison with the ilternatives' costs. The recommended alternative presented a positive benefit-to-cost ratio.

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Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

The Corps analysis utilized best data available, and concluded that further levee raises would not be needed in the economic life time of the Lower Granite Project. Throughout the life of the project (up through the year 2074) the risk of food damage is significantly decreased by the three-foot levee raise. The need for levee raises will be re-evaluated after 2074 based upon current conditions at that time.

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The hydraulic modeling used to determine sedimentation locations, volumes, and rates in this sover of an inserior one-dimensional model because of time constraints... Additionally, some of the studies are over a decade old, and have not been updated.... Given that this DEIS is essentially driven by ædiment transportation issues, SOS objects to use of the one-dimensional sediment transport in the Stake and Clearwater Rivers that would have given a more accurate understanding of sedimentation issues. However, the Corps elected to discard that analysis in DEIS is inadequate... The Corps originally proposed a two-dimensional model analysis of study and asks the Corps to delay implementation of a final EIS until appropriate and scientifically sophisticated modeling can be achieved

Response

the amount and timing of future sediment inflow into the reservoirs outweighs whether a one- or DMMP. Data for a two-dimensional model is not readily available. Further, the uncertainty of A one-dimensional model provided results that were valid and appropriate for the scope of this wo-dimensional model is used.

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Comment 25

The DEIS ignores the sweeping range of direct and indirect harms faced by salmon migrating through this region of the Columbia and Snake Rivers.

Migration Feasibility Study (LSRJSMFS), which is thoroughly documented in the February 2002 cumulative effects analysis, which the Corps of Engineers consulted in conducting its cumulative Corps of Engineers considered past, present, and reasonably foreseeable future events throughout practical delineations of these boundaries should be established. For the DraftDMMP/EIS, the reference. As stated in the Draft DMMP/EIS cumulative effects are those effects that "...result boundaries of the CEA may be broader than those used in assessing direct and indirect effects, The Corps addressed impacts to migrating salmon in the Lower Snake River Juvenile Salmon setting spatial and temporal parameters for CEA, and acknowledge that, while the geographic reasonably foreseeable future actions." The CEQ and EPA provide guidelines on conducting from the incremental impact of the [proposed] action when added to other past, present, and effects analysis (CEA) for the Draft DMMP/EIS. CEQ and EPA both provide guidance on documentation of these impacts (see section 1.6), and these findings are incorporated by inal Feasibility Report/EIS (FR/EIS). The DMMP/EIS considered the FR/EIS and its

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

analysis has been expanded in the Final DMMP/EIS (Section 4.14) and provides more details on establishing the environmental baseline (i.e., affected environment) for evaluation of the DMMP, and are documented in Chapter 3 of the Draft DMMP/EIS. The discussion of cumulative effects the geographic and temporal scope of the analysis, as well as resource-specific discussion on the lower Snake River and McNary Reservoir. Consideration of historic events, such as the development, operation, and maintenance of the inland navigation system, is important in potential cumulative effects.

of the proposed action. As stated in the Draft DMMP/EIS, the proposed action is not anticipated effects on environmental resources, but does not anticipate such impacts would occur as a result CEQ regulations provide further guidance that CEA should consider the effects of the proposed proposed action is anticipated to have some benefits to aquatic resources. Further, the adaptive modify and evaluate specific actions within the framework provided by the DMMP, potentially action when added to past, present, and reasonably foreseeable future actions. The Corps of Engineers readily acknowledges the proposed action's potential for additive and/or synergistic to add to existing or future impacts so as to result in significant environmental effects. In fact, resulting in even greater benefits (and correspondingly fewer negative effects) than currently management scenario proposed in the preferred alternative would provide the flexibility to

Organization

Save our Wild Salmon Coalition Comment 26

The DEIS, however, is entirely silent on hydrosystem management and this sweeping range of harms presented to migrating salmon.

The LSRJSMFS addresses system management effects on migrating salmon. The DMMP/EIS considered the LSRJSMFS and its documentation of these impacts (see section 1.6).

Also see response to comment 25 above.

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the DEIS's cumulative effects analysis does not aid in anyone's evaluation of the risks and Comment 27

benefits of the various alternatives.

Response

See response to comment 25 above.

Organization

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Comment 28

The DEIS fails entirely to justify the need for the project.

Section 1 of the DMMP/EIS (and in particular, Sections 1.2 and 1.7) provides detailed discussion

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

River and McNary Reservoir. Section 1.4 provides details on the authorization of the navigation sedimentation that reduces the channel to less than the Congressionally authorized 14-foot depth. describing alternatives, and presenting the evaluation of those alternatives. Also see response to of the purpose and need and justification for dredged material management in the lower Snake Thus, the Corps has examined a broad range of alternatives to address sedimentation-related channel in the DMMP study area. The navigation channel within the study area is subject to DMMP/EIS is consistent with the requirements of NEPA in stating the purpose and need, concerns for navigation and flow-conveyance, including non-dredging alternatives. The comment 29 below.

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Comment 29

mpact of reduced or no dredging. The analysis of the economic costs and benefit turns on a While the DEIS describes the economic benefits of dredging, it fails to analyze the economic implistic choice between barging as it exists today, and no barging allogether.

maintenance that would result in a change (in depth) to the authorized Federal channel was not navigation costs and benefits for different channel conditions was performed. Had the purpose maintain the authorized navigation channel and certain publicly-owned facilities in the lower considered as a part of the Draft DMMP/EIS. Therefore, no detailed incremental analysis of depths, both shallower and deeper than the authorized channel, would have been considered. he purpose of this DMMP/EIS is, in part "to develop and evaluate alternative programs to included determining the national economic development plan (NED), a variety of channel Snake River and McNary reservoirs for the next 20 years." Consideration of reduced Response

beneft analysis on the authorized Federal navigation project to ensure that the project remained in further response to the issues raised in the comment above, transportation commodity and economically feasible

lepth that yielded the maximum net economic benefits. Instead the Draft DMMP/ES performed

Navigation benefits and dredging costs would have been compared to determine the channel

be 3,270 tons and 2,950 tons, respectively. The impact of this reduced capacity would be to raise for moving the forecast grain shipments from the Snake River in the 20-year period from 2004 to in barge costs when the channel capacity was reduced by only one foot. However, where channel barge cost data prepared for the Lower Snake River Feasibility Study were used to determine the per ton barge costs by 10% and 22%, respectively. The resultant increase in transportation costs selected to represent the impacted commerce. Grain barge costs for shipments from the various long, 42 feet wide, and 13.5 feet draft) with drafts of 12.5 feet and 11.5 feet were determined to analysis, based on 1999 costs, indicated that dredging costs were equal to the estimated increase barge transportation. In essence, shoaling that reduces the channel depth by one foot represents "break even" point where maintenance dredging is feasible and cost-effective. While this feasibility of the maintenance dredging proposed and evaluated in the DMMP/EIS. For this analysis two shallower Federal navigation channels, with controlling depths of 13 feet and 12 feet, were assumed to result from termination of maintenance dredging. Grain shipments, representing 78.8% of the commerce on the Snake River for the period of 1987 to 1996, were shallower channels. Reduced cargo capacity of the standard 3,600-ton grain barge (274 feet depths were reduced by two feet, the cost of dredging was about half of the increased cost to sorts on the Snake River system were developed to reflect light loading to accommodate the 2024 was compared to the avoided armual cost of maintenance dredging. The result of this

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

shidy was not an exhaustive analysis of the feasibility of reduced channel maintenance dredging. it indicates that dredging was more cost-effective than light loading the present barge equipment If all waterborne commerce on the Snake River were considered, maintenance dredging of the federal navigation channel would be both feasible and more cost-effective than light-loading varges in the scenario described above, which considers only grain shipments.

Organization

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Comment 30

apply. SOS urges the Corps to povide greater detail and governing standards on how disposal uncabined discretion on where and how to make disposal decisions and what standards should making these determinations. Under the prefored alternative, this group will have virtually determinations, the Corps has failed to provide any guidance, restrictions or standards for While SOS is not necessarily opposed to a flexible or adaptive process for making disposal decisions are to be made.

Response

Ultimately, making the decision, the Corps will follow its policy of using the least costly method that meets environmental standards. In addition, all dredged material management actions taken within the the Corps will make the determination on what disposal method and location to use. The Corps ramework of the DMMP and with the input of the LSMG will meet regulatory and procedural will take the LSMG's recommendation into consideration when making the decision. When See Section 1.8 of the DMMP/EIS for a detailed discussion of the role of the LSMG. requirements of state and federal laws and regulations.

Organization

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Comment 31

fishing and tribal groups, when making disposal decisions. These individual decisions must be the SOS also urges the Corps to consult with and to include the public, including conservation,

subject of site-specific NEPA analysis and ESA consultation.

as ports, Tribes, and environmental groups. The LSMG members would be notified in advance of method and location. As illustrated in Figure 2-7, the Corps plans to follow a series of steps each The Corps does not plan to prepare an Environmental Assessment or Supplemental EIS each time t dredges. However, the Corps may supplement the DMMP/EIS if there are substantial changes The Corps has expanded the list of participants in the LSMG to include non-agency groups such coordinating with the State Historic Preservation Offices. All coordination will be site-specific. time a dredging activity is planned. These steps include publishing a public notice prior to the dredging activity, coordinating with NMFS and USFWS, coordinating with the Tribes, and any proposed dredging and have an opportunity to make recommendations on the disposal n the plan or impacts.

Also see the response to comment 30 above.

Final DMMP/EIS

July 2002

U.S. Army Corps of Engineers Valla Walla District

Organization

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Comment 32

SOS believes that the entire purpose and need is far too narrowly defined.

The project purpose and need are consistent with Corps policy and requirements and Congressional authorization.

Organization

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Comment 33

regimes, including barge navigation, so that Congress and the public can have a complete picture products from Lewiston downstream. There are multiple different ways to transport products that evaluate the relative merits, costs, and environmental risks presented by different transportation don't require the full ravigation channel, or even any barge navigation at all. This DEIS should The purpose and need for this DEIS should be focused more broadly on transportation of of the situation.

ago when Congress authorized the construction of the Snake River dams and the establishment of The issue of finding ways of transporting goods from Lewiston downstream was answered years a navigation channel. The costs of atemative methods of transporting products were evaluated (see section 1.7.1). There was strong economic justification for maintaining the existing navigation system.

Also see response to comment 29 above.

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Comment 34

Clearly, dam maragement "cannot or will not proceed unless otheractions fnamely dredging] However, the Corps has chosen to divorce dam management from dredging and contemplate them in two separate NEPA documents, each of which ignores the issues raised in the other. are taken" concurrently.

management does come into play when producing hydropower, as modifications to the dams are Section 1.6 of the DMMP/EIS addresses the relationship of the DMMP/EIS to the Lower Snake dredging is not required to maintain the ability of the Snake River dams and McNary Dam to River Juvenile Salmon Migration Feasibility Study (Feasibility Study). See the response to produce hydropower, which is an authorized project purpose of the dams. However, dam conunent 3 above. "Dam management" does take place without dredging. For example, being proposed to divert juvenile salmon away from the powerhouse.

Final DMMP/EIS

U.S. Army Corps of Engineers Walla Walla District

Organization

Save our Wild Salmon Coalition

Comment 35

In fact, the Corps goes so far as to raise numerous concerns about sedimentation/hurbidity is sues associated with dam breach, but then ignores the same issues altogether insofar as they relate to the dredging that is necessary in the absence of breach.

urbidity caused by dredging, as compared to dam breaching, would be localized, minor, and short-term. Conversely, dam breaching would involve large, system-wide turbidity impacts. Sedimentation and turbidity impacts associated with dredging are addressed in a number of ways including: restricting the time of year during which dredging activities can take place, restricting dredging operations, and monitoring during dredging operations. The restrictions and controls the methodology for dredging, characterizing the sediments that are to be dredged prior to proposed for dredging operations are appropriate for the scope of the proposed actions.

Organization

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Comment 36

decordingly, SOS requests that the Corps take the time to address the costs and environmental risks associated with dredging in the final Migration DEIS beforea ROD is finalized.

Response

February 2002. Section 1.6 of the DMMP/EIS describes the relationship between the DMMP and the Feasibility Study. The findings of the Feasibility Study have been considered in the The Lower Snake River Juvenile Salmon Migration Feasibility Study EIS was finalized in development of this DMMP/EIS.

repair costs are included for the full duration of the economic study. The O&M costs are included associated with dredging. The Existing Systems and Major Improvements Appendix E discusses complete cost of operating and maintaining the four lower Snake River dams, except for major rehabilitation of the dam turbine and generator units. Routine operation, maintenance, and minor minor repair are shown as an annual cost based upon an assumed percentage of O&M costs. An When minor repairs and routine operation and maintenance costs are combined, the result is the The Feasibility Study EIS does discuss operations and maintenance (O & M) costs and impacts the costs of dredging. Operations and maintenance annual costs are based on historical records, tabulated and broken out per work breakdown structure and separated into O&M costs for each transportation, dredging and miscellaneous costs, are included in the O&M cost data. Costs for dam. Minor and major rehabilitation costs, such as costs for navigation locks, spillways, fish additional percentage was used to cover the cost of aging equipment and increased dredging. in the cost estimate annex to Appendix E of the LSR study

repair, replacement and rehabilitation (O,M,R,R&R) that would be incurred under Alternatives 1 Replacement and Rehabilitation discusses avoided costs for dam-related operation, maintenance, The Economic Appendix, Section 3.8.4.2 Dam-Related Operation, Maintenance, Repair, through 3 include, but not limited to:

 Approximately \$7.7 million to operate and maintain the dams (i.e., average annual operation and maintenance costs); and

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

considered to continue in some fashion and was included in several areas of the Feasibility Study. studies and investigations linked directly to the Corps dredging authorities and projects, and these dredging and individual documents supporting 40 Code of Federal Regulations, Part 230, Section Lower Granite pool. Results from this investigation can be found in the Feasibility Study and this sampled sediments between the Port of Lewiston and the confluence of the Snake and Clearwater sediment study was repeated in 1999. Prior to the completion of the Feasibility Study document Historical environmental impacts associated with dredging are references in the Alternative One area. Several factors may have a relationship to this trend and this is discussed in the Feasibility The Record of Decision for the Feasibility Study will discuss dredging and is supported by the 404(b)(1) evaluations for specific dredge operations. The special tests conducted for this study report. Over a period of 15 years when the Corps dredging teams tested the compounds in the confluence of the Snake and Clearwater River. In 1990 and 1997 Corps sediment surveys for organic compounds. In the sediment analysis studies for 1984 and 1985 for interim dredging Lower Granite confluence area, there was a steady decrease of PAHs in the sediments of this chlorinated pesticides at port areas on the lower Snake and Columbia rivers. Since the early For example, Appendix C, Water Quality Appendix discusses water quality and cites several included collection of sediment samples downstream of the previous sediment samplings. In 1998, the Corps embarked upon its own Dredged Material Management Program study. The River. The Walla Walla District study (Sediment Sampling of Proposed Oredge Sites in the 1980s, the Walla Walla District monitored sediment prior to dredge operations for a suite of the Corps evaluated sediments for the proposed fiscal year 2001 confluence dredging in the Another products resulting from the endeavor will include a programmatic manual and a regionally evaluations as it is the existing systems alternative in the Feasibility Study. Dredging was The results of the sediment analysis are summarized below for each parameter and predominantly focus on the Snake and Clearwater confluence area. Corps has historically information located in the Feasibility Study and incorporates information from this study. (Corps, 1986, 1987), the Corps sampled sediments between the Port of Lewiston and the Confluence of the Snake and Clearwater Rivers, Pinza et al., [1992]) tested 19 sites for ipproved sediment test framework to address methods and procedures for testing, described in detail in Appendix C, Water Quality, Section 3.3 Sediment Quality.

maintain navigation channels affects the hydrology of the niver channel and disturbs the channel bottom. It can increase the velocity of the current and the movement of suspended sediments which can scour the bottom and shoreline. Dredging also disturbs sediments that may contain toxic substances that can be harmful to plants and animals. Before dredging, the Corps typically products to market. Many large vessels and barges travel up and down the river daily, requiring The Feasibility Study also discusses dredging issues in the navigation/transportation section of the EIS. Wheat growers and many industries along the river depend on it to transport their channels deep enough for them to navigate (see Section 4.9, Transportation). Dredging to tests for the presence of contaminants.

Additionally, Appendix M of the Feasibility Study EIS, the Fish and Wildlife Coordination Act discusses dredging. The lower Snake River pools have often been operated at the MOP+1 foot assessment for dredging of shoals in the Lower Granite and Little Goose pools to provide the (0.3048 m) elevation to provide additional depth for navigation. This has occurred at Lower Granite, Ice Harbor, and Little Goose reservoirs. The Corps has prepared an environmental report, Section 6.1.2.5 Operation at Minimum Operating Pool (MOP)+1 foot (0.3048 m)

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

Response to Comments

shoaling in the navigation charnel again required dredging. Dredging is also discussed in Section pools at MOP. Under the Existing Conditions alternative, this operation would continue until suthorized navigation depth of 14 feet (4.3m). This dredging would allow operation of these 12.1.1.3 Reduction of Predator Habitat,

habitat and provide more shallow sand bottomed habitat for fall chinook, as well as potential sites Dredging has been proposed at several locations in the lower Snake River reservoirs to restore dredged material be placed on riprapped areas. This would reduce available smallmouth bass material at selected riprapped shoreline sites. It would likely have to include some vegetation establishment, crosion control matting, or other measures to protect portions of the sites from for establishing riparian vegetation. The Corps should investigate the placement of dredged suthorized navigation depths. The USFWS has previously recommended to the Corps that wave erosion.

Even though the Feasibility Study does discuss costs and environmental impacts, the specifics and details of future dredging operations are analyzed in this Final DMMP/EIS

Save our Wild Salmon Coalgion

Comment 37

impacis of dredging and levee construction before those projects may procæd. The Corps' failure to do so in this EIS therefore not only violates NEPA, but also the CHA. Only with knowledge in hand can the agency determine what best serves they public interest. This EIS does precisely the thus, just like NEPA, the CWA requires the Corps to anduct a comprehensive analysis of the poposite

Response

be reviewed by appropriate water quality regulatory agencies as part of the Gean Water Act 401 Throughout implementation of the DMMP, the Corps will comply with applicable water quality specifically for each dredging site. Each proposed dredging activity and levee construction will regulations and consult with water quality regulatory agencies. The impacts of each dredging An assessment of water quality impacts has been included in Section 4.9 of the DMMP/EIS. activity will be evaluated in accordance with sampling and monitoring plans developed certification process.

Organization

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Comment 38

The Corps must evaluate impacts pursuant to EPA's 404 (b) (1) guidelines, 40 C.F.R 230. These quidelines require, among many other things, the Corps to determine that an action will not cause or contribute to significant degradation of the waters of the United States".

Response

and a 404(b)(1) evaluation for the proposed 2002-2003 dredging is included in Appendix N. The A programmatic Section 404(b)(1) evaluation is included in Appendix I of the final DMMP/EIS, accordance with sampling and monitoring plans developed specifically for each dredging site. impacts to water quality. For each separate dredge activity the impacts will be evaluated in Corps will design proposed dredging and disposal activities to avoid or minimize adverse ach proposed dredging activity will be reviewed by appropriate water quality regulatory

Final DMMP/EIS July 2002

agencies as part of the Clean Water Act 401 ceráfication process. The assessment will ensure that any dredged material management activity will not cause or contribute to significant degradation of the waters of the United States.

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Comment 39

required by the CWA so that the public and the decision maker may evaluate the Corps' proposal incorporates its comments on that document here. Regardless of the flaws in its NEPA analysis, SOS urges the Corps to conduct its 494 (b) (1) analysis to include the rigorous evaluation SOS reserves the right to offer comment on that document when it is released and hereby based on a full and accurate accounting of its impacts. Response

See responses to comments 37 and 38 above.

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Comment 40

The BA fails to provide an adequate basis for meaningful consultation with the NMFS, violating proposed, the conclusory statements, and lack of a cumulative effects inquiry in this BA falls far short of the ESA's requirements for biological assessments. The BA is largely a regurgitation of the ESA and its implementing regulations. Unfortunately, the poor analysis of the actions the DEIS, with no additional analysis of the potential impacts to listed salmonids.

biological assessment has satisfied NMFS' needs to make an informed decision on the actions National Marine Fisheries Service has issued its Biological Opinion based upon the BA, The

that were proposed, consistent with the requirements of the Endangered Species Act.

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discussed. A thorough discussion of the impacts of current management practices is a necessary In addition, the baseline of the current habtat for listed salmonds in the project area is not and useful starting point for an adequate BA.

Section 3 (Affected environment) of the DMMP/EIS discusses the history and nature of the study lower reservoir, it is understood that the current conditions in the downstream reaches of the Lower Granite Reservoir are not conducive for the preferred rearing habitat for fall chmook. Any area ranging from sediment quality to species present to water quality. In addition, Appendix K discusses the habitat preference of fall chinook salmon. Appendix F, Plate F-1 indicates the general depths of the disposal locations. Knowing the depths and substrate preferred by fall chinook, the depths of the proposed disposal areas, and the estimated deposition of silt in the mprovements that can be made to improve habitat diversity and minuc what existed prior to nundation will benefit the fish using Lower Granite Reservoir

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Save our Wild Salmon Coalition

Comment 42

isted species will (for the most part) not be present in the area during dreaging. See App. F., The DEIS and the BA fail to fully address the degradation of critical habitat associated with tredging. The BA largely dismisses critical habitat considerations, however, simply because 14. The presence or absence of listed species, however, is hardly the only relevant factor to consider in a critical habitat analysis.

Response

Irreatened SRF chinook, threatened SRSS chinook, threatened SRB steelhead, endangered UCRS steelhead may rear in this area year round. However, because most of the proposed dredging area near the confluence of the Snake and Clearwater rivers. Although most endangered or threatened peneficial use of dredged material will have a net benefit on critical habitat for fall chinook. The Critical habitat is discussed in Appendix K. The primary dredging areas are in the main channel modification or destruction of their Critical Habitat. The determination of no jeopardy is based National Marine Fisheries Service indicates, "The NMFS has determined that the effects of the salmonids use this area primarily as a migratory corridor, some fish including fall chinook and preferences are oriented along shorelines. Because most shoreline areas are not intended for pon the current status of the species, the environmental baseline for the action area, and the is in the main channel of the river, fewer fish use this area as rearing habitat, as most habitat chinook, endangered UCR steelhead, or threatened MCR stælhead or result in the adverse dredging, but are intended for habitat creation by disposal, the DMMP/EIS indicates that roposed actions will not jeopardize the continued existence of endangered SR sockeye, ffects of the proposed actions.

Organization

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Comment 43

Further, there is a dearth of analysis on the over-wintering of sub-yearling fall chinook in the mpacted area or fall chinook spawning in the tailraces that will be dredged.

the DMMP/EIS, in Appendix F, pages F41-44 and in Appendix K, pages K3-7. Research from regionally recognized experts has been cited on more than 20 instances. Spawning in the tailraces Fall chinook life history and occurrence in the project area is discussed in detail in Section 3.1 of typically not preferred by subyearling chinook based on velocity and substrate characteristics. As listributions of rearing salmonids, and habitat use. However, in the BA the Corps has stated that dredging is not expected to impact these fish. However, Easterbrooks found subyearling chinook reasonable and prudent measures under section C.2.5, includes examining the backwater habitats part of the monitoring plan outlined in the NMFS Biological Opinion for the DMMP, one of the spawning in those locations. Fall chinook typically rear along shorelines, and mainstem channel in the backwaters of McNary Reservoir during the late-winter and early-spring (1995). It is not known if there will be any impact to fish using boat basins or imigation intakes. These areas are dredging and dredged material management will likely adversely affect fall chinook because of of the dams was studied for 4 years, determining where spawning was possible and if fish were the proposed dredging areas prior to dredging to determine the spatial and temporal hese data collected by the state of Washington.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Organization Save our Wild Salmon Coalition

Comment 44

(recent documents serving as a tasis for salmon recovery in the Columbia Basin) This is especially clear in respect to the Federal Caucus' document, "Conservation of Columbia Basin: Salmon Recovery Strategy." The DEIS ignores the issue of sustainability. The document (DEIS) minimizes or ignores much of the guidance outlined in these documents

three areas: tributary streams; the estuary; and the mainstem rivers. Efforts to improve habitat in the mainstem rivers include creating habitat areas for fish. While dredging is not expected to negatively impact the Critical Habitat for endangered species (NMFS Biological Opinion 2002), it is expected to increase habitat for fall chinook. This technique, backed up by many years of research dating back to 1986, and a Reasonable and Prudent Measure in the BIOP to examine the continued viability of test disposal sites and newly created disposal sites, is directly in accordance The consistency with the Salmon Recovery Strategy is included in the habitat efforts covering with the Salmon Recovery Strategy.

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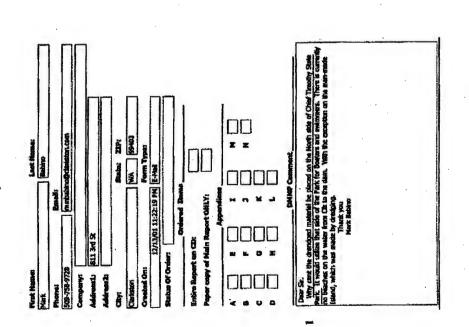
Comment 45

In the Corps' analysis of the socio-economic effects of the proposed dredging, there is no analysis of the costs to the fishing communities for going ahead with this project. Section 4.g at p.51. A complete analysis would include effects to both local sportfishing and down river commercial fishing communities.

The proposed action, which includes the proposed beneficial use of dredged materials and the measures outlined in NMFS' Biological Opinion, would not significantly impact anadromous fisheries (see Appendix F). Dredging and dredged material management, as proposed in the DMMP, would have temporary, ruinor effects on fish resources, and may have notable benefits to anadromous fishes through creation of favorable habitatis. In addition, maintaining boat basins would allow for continued boat-based recreational fishing.

U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002



Comment 1

Why can't the dredged material be placed on be North side of Chief Timohy State Park? Response

The river channel by Silcott Island (at Chief Timothy State Park) is already constricted by the presence of the island. Adding fill material in this area would further constrict the channel and may contribute to higher water surface profiles upstream in both the Snake and Clearwater rivers at Lewiston. This could increase the chance of flood darnages if floodwaters approach the top of the Lewiston levees during high runoff flood events. Additionally, dredged material deposited on the north side of the island would be subject to higher velocity flow conditions and would not stay in place unless it were protected by riprap or a cobble blanket.

U.S. Army Corps of Engineers Walla Walla District

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Oraft Dredged Material Management Plan and Environmental Impact Statement McNary Reservoir and Lower State River Reservoirs

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DEPARTMENT OF THE ARMY WALLA WALLA DISTRICT CORPS OF ENGINEERS C/O DREDGED MATERIAL MANAGEMENT PLAN 201 NORTH THIRD AVENUE WALLA WALLA WA 88362-1876

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REMARKS: (Continued)

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For some time I've thought that there may be areas along the Smaler River Reservoirs where it could/would be frestible/practical to devictop small streams beds a few hundred yand into up a half mile or so along the edge of the retervoir and supply water for the streams from low lift pumps or water piped from the dams. The streams could provide fitsh habitat and for natural reproduction areas for steelhead and salmon.

"I stituted the Corps of Engineers presentation of the DDMMP at Calembia Busin College on Dec 12s, 2001
where I talked with Jack Sarda, Slove Flack, and Julio Davin. They were very constocus and knowledgeable. I saked them if they were sware of any consideration of using the dredged naterial to form small stream beds
along the sides of the reservoirs. They said they were not aware of any considerations for such possibility, and
that it would obviously be more coulty to dump the dredged material above the reservoir level but that it may
ment consideration from a fish habit standpoint.

I suppositive usest that forming small stream bods along the reservoir, either on the existing above line or using the dresign mappial be considered.

Larry J. Gennon

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12/12/2001

Thomks, Jony J. Jans ř.

Larry Gannon Commenter

Comment 1

suggest/request that forming snall stream beds along the reservoir, either on the existing shore line or using the dredged material be considered.

sockeye, coho and steelhead typically require a cooler environment than would be available in the some of the dams. The best potential may be for spawning channels for Snake River fall chinook. primarily the cobble and gravel that would be removed from the tailrace areas downstream from Juveniles of this species typically outnigrate before warm temperatures in the summer could cause problems with fish mortality. The extended periods of rearing for spring/summer chinook, This idea has potential and could be considered under the beneficial use of dredged material, Snake River Canyon. Artificial spawning channels have been created in various areas of the Columbia River Basin and have had mixed success. An artificial spawning channel was created at the Wells hatchery for summer and fall chirook salmon, but showed very poor results for spawning according to hatchery personnel queried in 1993. However, in the lower Columbia River downstream from Bonneville Dam, there is a man-made spawning channel that is successfully used for spawning by Chum Salmon (WDFW).

prohibitive. However, locating a spawning area where water pumps already exist (e.g. an HMU), could reduce costs and may provide a water surply to the artificial channel. In addition, One of the major factors affecting the success of salmon spawning is what is known as hyporheic flow, or flow coming up through the gravel, which helps to incubate eggs. (Geist 1998) Where there are natural seeps and springs or through gravel flow (as in the Hanford Reach), adult fish are attracted to those locations for redd building, and high survival of eggs during incubation is thought to be typical. Repeating this in a boation where there is not through gravel flow, where artificial flow would have to be engineered, would be a difficult task and possibly cost investigations into possible freeze up of these channels during the winter would need to be investigated. U.S. Army Corps of Engineers

Final DMMP/EIS July 2002

Craft Dradged Material Management Plan and Environmental Impact Statement McNary Reservoir and Lower Snake River Reservoirs

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Appendix O Response to Comments

Commenter's Name Patrick Whitehill

Comment 1

fear the dredging project will deter the migration of the up river and down river steelhead and

Response

During the dredging operation, the Corps would make every effort logistically possible to avoid salmon and steelhead individuals and runs. Some fish will be difficult to avoid, but the dredging technique that the Corps has proposed (clamshell) has the least potential of capturing fish. The amount of turbidity and contaminants is not expected to be a problem for most fish during the dredging periods. Dredging the channel to a depth of 16 feet is not expected to significantly change the hydraulics around the confluence area and thus not the survivability of adults or juvenile fish as they migrate through. The Corps is not proposing to dredge a bank-to-bank template in an attempt to avoid removing the fish habitat along the shorelines surrounding the

With beneficial use of disposal material and enhancing habitat, the Corps expectsto increase the survivability of salmon smolts as they grow and outmigrate, with the anticipated result of increasing runs of some salmon stocks. U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002